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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   65; Match 67.2%; QryMatch 3.1%; Pred. No. 2.43e-19;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 670 GCTTACCGACTGGAAGACACGTTTGGCCCAGACCAACTATGATTAGAGCCAACTGCCTG 729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gtcaccaataggaaccgtcaatgtgagatgctgaaacagactcggctctgcatggtgcgg 283
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                                                                                                                                                                                                                                                                                                                                                        and call lines. Probes homologous to exon 2 of the chicken nov gene and to exon 3 of the CTGF gene (Q36035 and Q36039, respectively)
                                                                                                                                                                                                                                                                                                                                                                                                                       were also used in the hybridisation experiments. The results showed
                                                                                                                                                                                                                                                                                                 This sequence is homologous to exon 4 of the CTGF gene and was used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                belonging to the same family are expressed differently in different
                                                                                                                                                                                                                                                                                                                                                                                                                                                  that the human homologue of the chicken nov gene and the CTGF gene
                                                                                                                                                                                                                                                                                                                               as a probe in Northern hybridisations with different human tissues
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Nucleotide sequences hybridising to regions of chicken nov gene useful as probes for detecting complementary sequences to evaluate development and/or differentiation of tumours
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Nucleotide sequences which hybridise to Fragment XIII (Q36038) of
                                                                                                                                                                            Nucleotide sequences hybridising to regions of chicken nov gene -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          95 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches 62; Indels
                                                                                                                                                                                                             useful as probes for detecting complementary sequences to
                                                                                                                                                                                                                                        evaluate development and/or differentiation of tumours
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          114 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           avian nephroblastoma; avian myeloblastoma virus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tissues or lines as different RNA transcripts. Sequence 435 BP; 120 A; 106 C; 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homologous to chicken nov gene exon 4.
                                                                                                                                                                                                                                                                      Claim 14; Page 34; 67pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q36041 standard; cDNA; 216 BP
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25-JUN-1991; FR-007807.
(CNRS ) CENT NAT RECH SCI.
Martinerie C, Perbal B;
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                                                                                       (CNRS ) CENT NAT RECH SCI
                                                                                                                  Martinerie C, Perbal B; WPI; 93-036377/04.
07-JAN-1993.
25-JUN-1992; F00589.
25-JUN-1991; FR-007807.
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encode a protein with at least 85% homology to R31604 which is encoded
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                                                                                                                                                                                                                                                                                                                                                                                                        61 gaacagaccacagagtggacagcatgctccaagagctgtggtatggggttctccaccgg 120
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                                                                                                                                                                                                                                                        0; Gaps
                                               characterised in that they comprise at least part of a 400bp HincII fragment derived fron a recombinant clone isolated from a human placenta DNA library. Sequence XVII (Q36041) is a subfragment of sequence XVI (Q36040) but is not specifically mentioned in the
                                                                                                                                                                                                                                                        Indels
                               by Fragment XIII. Such nucleotide sequences are further
                                                                                                                                                                             38 T;
                                                                                                                                                                                                                                                      0; Mismatches 62;
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                                                                                                                                                                             26 C;
                                                                                                                                                                                                                        Match 67.2%;
                                                                                                                                                                             62 A;
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Release 2.1D John F. Collins, Biocomputing Research Unit. Copyright (c) 1993, 1994, 1995 University of Edinburgh, U.K. Distribution rights by IntelliGenetics, Inc.

n.a. - n.a. database search, using Smith-Waterman algorithm

MPsrch\_nn

Fri Sep 22 22:17:35 1995; MasPar time 117.89 Seconds 898.163 Million cell updates/sec Run on:

Tabular output not generated.

>US-08-167-628-1 (1:2075) from 5408040.seq 2075 Description: Title:

Perfect Score:

1 CCCGCCGACACCCCCGAGA.....AGGAAATGTGGTAGCTCACG 2075 GGGCCGCCTGTCGGGGCTCT.....TCCTTTACACCATCGAGTGC N.A. Sequence: Comp:

TABLE default Gap 6 Scoring table:

Dbase 0; Query 0 Nmatch STD

61539 seqs, 25515148 bases x 2 Searched:

Database:

n-genesed

n-gen3 n-gen5 n-gen6 n-gen7 n-gen8 n-gen4 n-gen9 n-gen2 n-gen1 110 Mean 10.059; Variance 7.188; scale 1.400 Statistics:

n-gen10

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

			~	80	4
	Pred. No.	0.00e+00	e-13	e-11	e-10
	Pred	0.0	2.19	2.44	9.12e-104
	Description	Gene for beta-IG-M2. 0.00	•		
	01	026422	036031	036046	036032
	DB	4	9	9	9
	Query Match Length DB ID	1 921 44.4 2330 4 Q2642	1975 6	619	684
ar (	Query Match	44.4	12.7	11.6	10.4
	Score	921	264	240	215
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106 5.1 252 6 036035 Chicken nov gene exon 106 5.1 196 6 036045 Chicken nov gene exon 106 5.1 196 6 036045 Chicken nov gene exon 106 5.1 196 6 036041 Gene for beta-IG-MI. 80 3.9 1047 2 010572 Human Natriuretic Pep 73 3.8 1047 2 010572 Human Natriuretic Pep 73 3.8 1047 2 010572 Human Natriuretic Pep 65 3.1 216 6 036039 Homologous to exon 3 65 3.1 216 6 036039 Homologous to chicken 3.1 216 6 036039 Chicken nov gene exon 62 3.0 452 6 036041 Human sequence XXVII 6 036034 Chicken nov gene exon 62 3.0 452 6 036034 Chicken nov gene frag 7 12 6 036034 Chicken nov gene frag 62 63603 Chicken nov gene frag 7 12 6 036034 Chicken nov gene frag 8 03146 Chicken nov gene frag 8 03146 Chicken nov gene frag 1 1 1521 5 03347 Microsatellite sequen 1 1 1521 5 03347 Microsatellite sequen 1 1 1521 5 032724 Sequence of the first 1 1 1521 5 032724 Sequence of the first 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	106   5.1   252 6 036035   Chicken nov gene exon   1.64     106   5.1   196 6 036049   Fragment XXXII encode   7.54     108   4.2   2028   4 026421   Gene for beta-1C-MI.   1.28     109   3.9   1047   2 010572   Human Natriuretic Pep   2.72     13   2   2010572   Human Natriuretic Pep   2.72     13   2   2   2   2   2   2   2     13   2   2   2   2   2   2     14   3.2   3.12   0   2   2   2     15   3.1   2.16   6 036049   Homologous to exon   3     15   3.1   2.16   6 036049   Homologous to exon   3     15   3.1   2.16   6 036049   Homologous to exon   3     15   3.1   2.16   6 036049   Homologous to exon   3     15   3.1   2.16   6 036049   Homologous to exon   3     15   3.0   2.09   6 036049   Homologous to exon   3     16   2.1   2.04   Human sequence XXVIII   9     17   2.1   2.04   Human sequence XXVIII   9     18   2.1   2.04   N81164   Human sequence XXVIII   9     19   2.17   2.04   Human sequence XXVIII   9     19   2.17   2.04   Human sequence XXVIII   9     19   2.17   2.04   Human sequence XXVIII   9     10   2.17   2.04   Human sequence XXVIII   9     11   2.17   2.04   Human sequence XXVIII   9     12   2.18   2.19   2.19   2.19     13   2.11   2.04   Human genome fragment   3.13     1.16   2.58   5   0.3347   Human genome fragment   3.13     1.16   2.66   4.25   5.29   2.20     2.1   2.10   2.29   2.20   2.20     2.1   2.10   2.29   2.20   2.20     2.2   3.2   3.2   3.27   3.27   3.27   3.22   3.22   3.22     3.1   3.1   5   3.27   3.22   3.22   3.22   3.22     3.1   3.2   3.2   3.2   3.22	S	160	7.7	461	છ	036044	Chicken nov gene exon	5.23e-72
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5 57 3.2 372 10 657417 CYR61 like protein. 5 5 3.1 216 6 026039 Homologous to exon 3 5 5 3.1 216 6 036040 Homologous to exon 3 5 5 3.1 216 6 036041 Homologous to exon 4 5 5 3.1 230 6 036033 Chicken nov gene exon 6 2 3.0 253 6 036034 Chicken nov gene exon 6 2 3.0 253 6 036036 Chicken nov gene exon 6 2.9 72 6 036036 Chicken nov gene exon 6 0 2.9 72 6 036048 Chicken nov gene frag 7 2 6 036048 Chicken nov gene 4th 6 0 03604 Chicken nov gene 4th 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	67         3.2         372         10         957417         CYR61 like protein.         2.1           3         65         3.1         216         6         286039         Homologous to exon 3         2.4           65         3.1         216         6         236040         Homologous to chicken 2         2.6           64         3.1         236         6         236033         Chicken nov gene exon 2.6         8.6           63         3.0         209         6         236036         Chicken nov gene exon 2.6         8.6           60         2.9         7.2         6         236047         Human sequence XXVIII 9.4           8         6.2         3.0         253         6         236048         Chicken nov gene exon 2.6           8         6.2         1.42         6         236048         Chicken nov gene exon 2.6           9.2         2.5         6.35         6         236048         Chicken nov gene exon 2.6           1.2         2.0         1.0         256048         Chicken nov gene exon 2.6         25616           2.5         6.356048         Chicken nov gene exon 2.6         25616         6.356048         Chicken nov gene exon 2.6           3.2	Ξ	19		1047	7	010572	Natriuretic	.36e-2
Second	5   3.1   216 6 036039   Homologous to exon 3   2.4     5   5   3.1   216 6 036041   Homologous to exon 4   2.4     5   5   3.1   216 6 036041   Homologous to chicken 2     5   5   3.1   216 6 036033   Chicken nov gene exon 2     5   5   3.0   209 6 036034   Chicken nov gene exon 2     5   5   5   5   6 036034   Chicken nov gene exon 2     5   5   5   5   6 036047   Human sequence XXVII     5   5   5   5   5   6 036047   Human sequence XXVII     5   5   5   5   5   6 036047   Human sequence XXVII     5   5   6 036047   Chicken nov gene frag     5   6 036047   Human sequence XXVII     5   6 036047   Chicken nov gene frag     6 0 2 9   72   6 036047   Chicken nov gene frag     7   5   6 036047   Chicken nov gene frag     8   6 0 333947   Chicken nov gene frag     9   9   021746   Oligonuclectide probe 2     9   9   021746   Oligonuclectide probe 2     9   9   021746   Oligonuclectide probe 2     9   9   033947   Microsatellite sequen 6     9   9   033947   Microsatellite sequen 6     9   9   033947   Microsatellite sequen 6     9   9   034094   Sequence of a microsa     9   9   034094   Sequence of a microsa     9   9   034167   Sequence of a microsa     9   9   034167   Sequence of a microsa     9   9   034167   Sequence of a microsa     9   0   034167   Sequence of a microsa     9   0   034167   Sequence of cosmid cl 3     1   15   16   034167   Sequence of cosmid cl 3     1   15   16   034167   Sequence of cosmid cl 3     1   15   16   034167   Sequence of microsa     1   17   18   044167   Sequence of cosmid cl 3     1   1   1   1   1   1     1   1   1		19		372	10	057417	like protein	.18e-2
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65 3.1 216 6 Q36041 Homologous to chicken 6 6 4 3.1 230 6 Q36033 Chicken nov gene exon 7 209 6 Q36033 Chicken nov gene exon 6 2 3.0 253 6 Q36034 Chicken nov gene exon 6 2 3.0 253 6 Q36034 Chicken nov gene exon 5 2 2 2 6 Q36034 Chicken nov gene frag 7 2 2 2 6 Q36048 Chicken nov gene frag 7 2 2 2 6 Q36034 Chicken nov gene frag 7 2 2 2 2 6 Q36034 Chicken nov gene frag 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	65 3.1 216 6 Q36041 Homologous to chicken 2.4 6 4 3.1 230 6 Q36033 Chicken nov gene exon 2.6 2 3.0 2.09 6 Q36033 Chicken nov gene exon 2.6 2 3.0 2.55 6 Q36034 Chicken nov gene exon 2.6 2 3.0 2.53 6 Q36036 Encodes polypeptide h 8.1 2 6 2.6 142 6 Q36048 Chicken nov gene farm 1.6 2.2 2.5 632 6 Q36048 Chicken nov gene farm 1.6 2.2 2.5 632 6 Q36048 Chicken nov gene farm 1.6 2.1 204 1 N81164 Base substituted E.co 9.7 4 4 2.1 204 1 N81164 Oligonuclectide probe 9.7 1 204 1 N81164 Oligonuclectide probe 9.7 1 204 1 N81164 Microsatellite sequen 2.1 39 1.9 56 5 Q33947 Microsatellite sequen 2.1 34 1.6 5 Q33702 Microsatellite sequen 2.1 34 1.6 258 5 Q33702 Microsatellite sequen 2.1 34 1.6 258 5 Q33702 Microsatellite sequen 2.1 34 1.6 258 5 Q33607 Microsatellite sequen 2.1 34 1.6 258 5 Q33607 Microsatellite sequen 2.1 33 1.6 264 4 Q27097 Fragile X diagnostic 1.1 33 1.6 264 4 Q34122 Sequence of a microsa 1.1 31 1.5 32 1.0 Q77289 Human genome fragment 3.1 3.1 6 840 4 Q34122 Sequence of a microsa 1.1 32 1.5 327 10 Q77289 Human genome fragment 3.1 3.1 1.5 7.9 4 Q34167 Sequence of a microsa 1.1 3.1 1.5 7.9 4 Q34502 Sequence of a microsa 1.1 3.1 1.5 7.9 4 Q33502 Sequence of a microsa 1.1 3.1 1.5 7.9 4 Q33502 Sequence of a microsa 1.1 3.1 1.5 7.9 4 Q33502 Sequence of a microsa 1.1 3.1 1.5 7.9 4 Q33502 Sequence of a microsa 1.1 3.1 1.5 7.9 4 Q33502 Sequence of microsate 2.2 2.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1		65		435	9	036040	to exon	.43e-1
6 4 3.1 230 6 036033 Chicken nov gene exon 6 3 3.0 209 6 036038 Chicken nov gene exon 6 2 3.0 253 6 036037 Sequence XI homologou 6 2.9 72 6 036047 Human sequence XXVIII 1 54 2.6 142 6 036048 Chicken nov gene frag 7 2 6 2 6 036048 Chicken nov gene frag 7 2 6 2 6 036048 Chicken nov gene frag 7 2 1 2 04 1 N81164 Base substituted E.co 6 1 2 0 051746 Oligonucleotide probe 6 3 2 1 2 0 4 1 N81164 Base substituted E.co 7 3 2 1 2 0 0 051746 Oligonucleotide probe 7 2 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 4 3.1 230 6 Q36033 Chicken nov gene exon 8.0 63 3.0 209 6 Q36034 Chicken nov gene exon 2.0 6 2.3 0.0 452 6 Q36037 Chicken nov gene exon 2.0 2.3 0.253 6 Q36036 Encodes polypeptide N 8.1 2.2 2.5 6 Q36047 Human sequence XXVIII 9.4 2.2 2.5 6.32 6 Q36034 Chicken nov gene frag 1.1 2.2 2.4 1 N81164 Base substituted E.co 9.2 2.1 204 1 N81164 Oligonucleotide probe 2.2 2.2 2.3 6 Q33947 Microsatellite sequen 5.2 2.3 1.7 1521 5 Q33947 Microsatellite sequen 5.2 2.3 1.7 1521 5 Q33947 Microsatellite sequen 5.2 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2		92		216	9	036041	Ç	.43e-1
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3 1.6 59 4 Q34173 Sequence of a microsa 32 1.5 327 10 Q77289 Human genome fragment 32 1.5 50 4 Q34167 Sequence of a microsa 32 1.5 870 6 Q39248 Sequence of cosmid cl 32 1.5 62 4 Q34053 Microsatellite sequent 3 11.5 79 4 Q33502 Sequence of microsate 1 1.5 260 10 Q7744 Human genome fragment 3 1.1 0 Q7744 Human genome fragment 3 0.01 0 0.07744 Human genome fragment	3 1.6 59 4 Q34773 Sequence of a microsa 1.14e- 3 2 1.5 327 10 Q77289 Human genome fragment 3.13a- 1 3 1.5 870 6 Q39248 Sequence of a microsa 3.13e- 2 3 1.5 62 4 Q34053 Microsatellite sequen 3.13a- 3 1 1.5 79 4 Q33502 Sequence of microsate 8.49e- 3 31 1.5 79 4 Q33502 Sequence of microsate 8.49e- 3 1 1.5 260 10 Q77444 Human genome fragment 8.49e- 3 1.4 201 2 N70195 Streptomyces protease 2.27e-	31	33		49	4	3412	of a micros	14e - 0
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1 32 1.5 50 4 034167 Sequence of a microsa 1.5 870 6 039248 Sequence of cosmid cl 2 32 1.5 62 4 034053 Microsatellite sequen 3 31 1.5 79 4 033502 Sequence of microsate 1 3 1.5 260 10 077444 Human genome fragment 3 1 1.5 260 10 077444 Human genome fragment 5 30 1.4 201 2 2010 077444 Human genome fragment	1 32 1.5 50 4 034167 Sequence of a microsa 3.13e-12e-13 1.5 870 6 039248 Sequence of cosmid cl 3.13e-12e-13 1.5 62 4 034033 Microsatellite sequen 3.13e-13e-13 1.5 79 4 033502 Sequence of microsate 8.49e-14 1.5 260 10 077444 Human genome fragment 8.49e-15 30 1.4 201 2 N70195 Streptomyces protease 2.27e-15e-15e-15e-15e-15e-15e-15e-15e-15e-15	39	32	•	$\sim$	10	7728	genome	.13e-0
2 32 1.5 870 6 039248 Sequence of cosmid cl 2 32 1.5 62 4 034053 Microsatellite sequen 3 31 1.5 79 4 033502 Sequence of microsate 3 1 1.5 260 10 077444 Human genome fragment 3 1 1.0 27744 Human genome fragment	1 32 1.5 870 6 039248 Sequence of cosmid cl 3.13e-2 4 034053 Microsatellite sequen 3.13e-3 1.5 62 4 033502 Sequence of microsate 8.49e-3 1 1.5 260 10 077444 Human genome fragment 8.49e-5 30 1.4 201 2 N70195 Streptomyces protease 2.27e-	40	32		20	4	3416	of a micros	Ξ.
2 32 1.5 62 4 034053 Microsatellite sequen 3 31 1.5 79 4 033502 Sequence of microsate 4 31 1.5 260 10 077444 Human genome fragment 3 1 1 201 2 N70105	2 32 1.5 62 4 Q34053 Microsatellite sequen 3.13e-33 11.5 79 4 Q33502 Sequence of microsate 8.49e-4 31 1.5 260 10 Q77444 Human genome fragment 8.49e-5 30 1.4 201 2 N70195 Streptomyces protease 2.27e-	41	35	•	-	9	3924	of cosmid	Τ:
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#### **ALI GNMENTS**

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NEUTRIP93 (first entry)
Gene for beta-IG-M2.
Transforming growth factor beta; induced; CEF-10; v-src; chicken; embryo; fibroblasts; TGF-beta; ss.
                                                                                                                                      17-JAN-1992; 300429.
18-JAN-1991; US-642991.
10-JAN-1992; US-816270.
(BRIM ) BRISTOL-MYERS SQUIBB CO.
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22-JUL-1992.
                                                                           Mus musculus.
                     026422;
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CAGA 829	gca 960	- ()	gca 1020      CA 949	3a 10	 GCA 1009	tga 1140		atg 1200	ATG 1129	aag 1260 	Æ	ctgt 1320	- 20	aggaa 1379 	AAG 1304	aga 1439	AGA 1362	cagaa 1496	GAA 1422	tac 1556	TAT 1477	ggg 1616	GGA 1536	cct 1672	rcT 1596	ctctg 1726	CTG 1656	gacag 1786	CAG 1715	ata 1842 
GCTAGAGAAGC	attaagaagg	TAAGAA	getttetgget 	geegetg	GGCCGATGCTG	Jat	GGCGAGGTCAT	cctggggacaat	2000	:aaagccagg	SS S	ttett		accgtgggag	999-9	ctgtcaacctca	rcttcc	U	- 0	jaaagacaggtac 		gtaaccggggagc	-15.	agctgagca-tgtgtcct	GATGTGCAT	agtttcagct	GACTCAGCT	Jactg	ACTG	gatattgtaa 
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CGGGTTACCAAT	gecetge	SCCTTGC	cctaaaatcg            CCCAAAATCT	agggctaagt	 cgagctaaat	tct	= <u>5</u>	caagacct	CAAGACCT	tccctgtactacagga	TACTACAGGA	ttagactata	TAGACTGGA	cacat-taat	CACAAGTTAT	<u>ٽ</u> –	- 🛏	tttacacttg	rtaagact tg	ctcctggaac	CTTTAGGAGG	aaagcagcag1	racc-actaa	cagacagacci	CTGACCTGCC	gagtccagct	SAGTCAAGTT	jacacttgto	SACACTGTTC	tgcctgtaaca 
ATCTCCACCGG	tgcatggtcac	CATG	gcatccggacacctaaaat 	yaagacatac	BAGACATAC	agas	CAGAACCACCAC	atgatgttcat	13	gagtecetgi	GAATCGCTG	acgaactcat	ATTAACTCA	ttacagtago	TTTCAGTAG	ccaccaaagtgagaacgtta 	cccaatica	tcgagacagt	TGAAGAATG	gaggtgagte	AAGGTGTGG	gttatttta	CGACTCTTA	igcatgcttgo	GCCTCCTCA	J-atgaggete	CAAGAGACT	gattccagte	GATTCGAAT	caagtaagttt 
GGATGGCCAT	geegeetete	- 25	aaaagtgo 	ccagtgtg	CCAGCATG	3903	CCCCCCAC	aaaagaata 	AGAAGAAG	acatctttgagt	ACATCTT	taagggac   11	TGAGAGAC	aaaaacaa	AAAAATGA	ctatccca	ဦ	cactggtt	: 5	cgcacact	TCTATAT	tagctgag	CATCAGAT	aaattata	AAATTTTA	cca-ctag	CCAGCCAT	accattctc		cttgtggc
07.7	901	830	961	1021	950	1081	1010	1141	1070	1201	1130	1261	1190	1321	1248	1380	1305	1440	1363	1497	1423	1557	1478	1617	1537	1673	1597	1727	1657	1787
à	QQ	ò	g &	q	δ	qq	δy	q	δ	qq	ð	g	ò	qq	δ	QQ	ò	q	ò	qq	δ	qq	δ	qu	٥y	qq	δ	QQ	δ	<b>Q</b> 0

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                                         1897 aaagtcatttgtt--tttgt-tttaagtgcttt-tgg---gattttaaactgatagcctc 1949
                                                                                           1716 CTTGTGGCAAGTGAATTTGCCTGTAACAAGCCAGATTTTTAAAATTTATATTGTAAATA 1775
                                  1843 ttgtg-----ga-tatatatatatatatatatatatattgtacagttatctaagttaattt 1896
                                                                       Nucleotide sequences hybridising to regions of chicken nov gene useful as probes for detecting complementary sequences to
                                                                                                                                                     Chicken nov coding sequence.
avian nephroblastoma; avian myeloblastoma virus; ss.
Gallus domesticus.
                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                           JT 2
Q36031 standard; cDNA; 1975 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                             Q36031;
24-MAY-1993 (first entry)
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WPI; 93-036377/04.
P-PSDB; R31599.
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polyA_signal
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sig_peptide
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PT	evalua	ation of
දු ප	The ch	Ciaim 1; fig 1; 0/pp; French. The chicken nov gene is stimulated in avian nephroblastoma induced
ខ	by avi	an myeloblastoma virus but not in normal adult kidney. The
ဗ	1975bp	cDNA sequence was isolated from a gene bank prepared from
38	The CD	n empryonic ilbroblasts screened with a tumour-delived probe. NA was cloned in Bluescript KS+ to form plasmid pCIK which was
ខ	labell	ed and used to screen a human placental DNA library. A nov-
ဗ ဗ	analog	ous gene was isolated from the human library. Nucleotide
888	condit	conditions (i.e. 50% formanide, 5 x SCC) are claimed.
S.	Sequen	ce 19/5 BP; 522 A; 451 C; 486 G; 516 T;
DB Ma	DB 6; So Matches	core 264; Mátch 66.0%; QryMatch 12.7%; Pred. No. 2.19e-1 575; Conservative 0; Mismatches 293; Indels 3; Gaps
qq	151 c	gccgcgctgccccgggagtgcccgccgtgctgacggctgcggctgcctggtgt 210
δλ	248 C	
qq	211 g	agecagagagagagagagatactcccttatgatacatgagagaga
Qy	308	GEGCCAAGCAGCTGGGCGAGCTGTGCCACCGAGCGCGACCCCTGCGACCCCCAAGGGCC 367
qq	271 t	ctactgcgaccgcggggcccgaggacggcggggggggcgggatctgcatggtgctggaag 330
٥y	368 T	TOTICIGISTATIOGECICCCGGCCAACGACGACGTGGCGTGCACGCGAAGATG 42
qq	331 g	gaacaactgogtgttcgatgggatgattaccgcaacgggggagacgttccagcccagct 390
δy	428 G	
QQ	391 g	caagtaccagtgcacctgccgggacgggcagatcgggtgcctgcc
δy	488 G	GCAAGTACCAGTGCACGGCGCGGGGGGGGGGGTGCATGCCCCTGTGGAGGCATGG 547
qq	451 g	gcctgctgctcccggccccgactgcccttcccgcggaagatcgaagtccccggaagt 510
δ	548 A	CCTTCCTCTGCCCGGCCCTGACTGCCCCTTCCCGAGGGGTCAAGCTGCCCGGGAAAT 607
QQ	511 9	gctgcgagaagtgggtgtgcgacccagggatgaagtgctcctgggaggctttgctatgg 570
δλ	5 809	CTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAACCGTGGTTGGGCCTGCCCTCG 667
qq	571 c	ctgcatacagacagaggccacacttgggatagacgtgtctgattcaagtgccaattgta 630
δλ	o 899	GGCTTACGGACTGGAGACACGTTTGGCCCAGCCAACTATGATTAGAGCCAACTGCC 727
ηρ	631 t	ttgaacagacaacagaatggagtgcttgttccaaaagctgtggaatgggcttttctaccc 690
δ	728 T	GOTCCAGACCACAGAGGGGGCCTGTTCCAAGACCTGTGGGATGGGGATCTCCACC 787
QQ	691 g	gtgttaccaacagaaatcagcagtgtgagatggtgaagcagagacacgactttgcatgatga 750
δλ	788 G	GGTTACCAATGACAACGCCTCCTGCAGGCTAGAGAAGCAGAGCCGCCTGTGCTGA 847
QQ	751 g	gaccttgtgaaaacgaagagccatctgataagaaaggaaaaaaagtatccaaacaa 80]
δ	848 G	GCCTIGGGAGGTGACTGGAAGATAAGAAGGGGAAAAAGTGGATGTTGT 903
qq	808 a	gaaatccatgaaagctgttcgttttgaatacaagaactgcaccagtgtgcagacttaca 867
δ	ວ 806	CCAAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACGCAC

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RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240; Match 98.8%; QryMatch 11.6%; Pred. No. 2.44e-118; nservative 0; Mismatches 3; Indels 0; Gaps 0;
1028 CCCTGCCGGTGCAGTTCAAGTGCCCTGACGGCGGGTCATGAAGAAGAACATGATGTTCA 1087
                                        cgattcaagttgagttccgctgtcctcagggcaaattcctaaaaaagccaatgatgttga 987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 219 tgcagcatggacgttcgtctgcccagccctgactgcccttcccgaggagggtcaagctg 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              descriptions of other sequences mentioned in the claims), sequence
                                                                                                                                                                                                                                                                                                                                                                          Nucleotide sequences hybridising to regions of chicken nov gene -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of the chicken nov gene 3rd. exon under stringent conditions (i.e.
                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure and Claim 26; Page 41; 67pp; French.
In the claims, sequence XXVII is described as part of the chicken
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        XXVII is described as a preferred nucleotide sequence of the invention which is found in humans and can hybridise to a portion
                                                                                                                                                                                                                                                                                                                                                                                                                                               nov gene exon 4. In the disclosure (which contains more reliable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 133 T;
                                                                                                                                                                                                                                                                                                                                                                                      useful as probes for detecting complementary sequences to evaluate development and/or differentiation of tumours
                                                                                                                                                                                                                      Human sequence XXVII homologous to chicken nov gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               175 6;
                                                                                                                                                                                                                                     avian nephroblastoma; avian myeloblastoma virus;
                                                                                              tcaatacctgtgtctgtcatggtaactgtcc 1018
                                                                                                           1088 TCAAGACCTGTGCCTGCCATTACAACTGTCC 1118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               197 C;
                                                                                                                                                              JT 3
Q36046 standard; cDNA; 619 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               114 A;
                                                                                                                                                                                                                                                                                                      25-JUN-1992, F00589.
25-JUN-1991, FR-007807.
(CNRS ) CENT NAT RECH SCI.
Martinerie C, Perbal B;
                                                                                                                                                                                                                                                   stringent hybridisation; ss.
                                                                                                                                                                                                        24-MAY-1993 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 240; marcin 243; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 50% formamide, 5 x SCC)
                                                                                                                                                                                                                                                                                                                                                Martinerie C, Perb
WPI; 93-036377/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               619 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cctgcc 344
                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                             WO9300430-A.
                                                                                                                                                                                                                                                                                          07-JAN-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCTGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                            036046;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 6; S
Matches
                                       928
                                                                                              886
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A L	Q36032 standard; cDNA; 684 BP. Q36032; 24.MAY-1903 (first entry)
2 E	24-mai=1950 (iii8c miniy) Chicken nov dene fraament II
<u> </u>	avian nephroblastoma; avian myeloblastoma virus;
<b>Æ</b> 6	
2 2	GALLUS GOMESTICUS WOQ370A30-A
<u>S</u>	07-JAN-1993,
PF	25-JUN-1992; F00589.
R a	. 5
4 L	(CNNS) CENT NAI RECH SCI.
: K	WPI; 93-036377/04.
PT	Nucleotide sequences hybridising to regions of chicken nov gene -
E E	useful as probes for detecting complementary sequences to
1 20	evaluate development ang/or dillerentlation of tumours
	oranm ij raye zo; o/pp; riench. The chicken nov gene is stimmlated in avian nephroblastoma induced
පු	by avian myeloblastoma virus but not in normal adult kidney. A
ဗ	1975bp cDNA sequence was isolated from a gene bank prepared from
ខ	chicken embryonic fibroblasts screened with a tumour-derived probe.
8	Fragment II is derived from the nov gene; nucleotide sequences
88	which hybridise to Fragment II under stringent conditions (i.e.
සු ස	50% formamide, 5 x SCC) are claimed. Sequence 684 BP: 141 A: 197 C: 226 G: 120 T:
ž	11 021 10 022 10 101 111 111 120 00000000
DB Mat	DB 6; Score 215; Match 67.6%; QryMatch 10.4%; Pred. No. 9.12e-104; Matches 413; Conservative 0; Mismatches 198; Indels 0; Gaps 0;
qu	26 egcegeget gegeccegggagt gecegeegtgetgaegget gecgetgetget gt
á	248 CGCGCGCTGCCCGGCGGGGGGGTGAGCCTCGTGGACGCTGCGGCTGCGGCGTCT 307
ηρ	86 gcgcccggcagcggcggcgagagctgcccctctgctgcccctgcgacgagagcggcg 145
δ	308 GCCCAAGCAGCTGGGCGGACTGTGCACCCGACCCGACCC
QQ	146 tctactgcgaccgcggccccgaggacggcggcggcggcatctgcatgqtqctggaag 205
δλ	368 TCTTCTGTGACTTCGGCTCCCCGGCCAACGGCGTGTGGCGTGTGCACGCCCAAAGATG 427
QQ	206 gggacaactgcgtgttcgatgggatgatttaccgcaacggggagacgttccagcccagct 265
ò	428 GTCCTCCTGCATCTTCGGTGGTACGGTGTACGCAGGAGTCCTTCCAGAGCAGGT 487
. 4	
2	
Qy	488 GCAAGTACCAGTGCACGTGCACGTGGGCGTGGGCTGCATGCCCCTGTGCAGCATGC 547
qq	326 geetgetgeteceeggeeeeggaetgeeetteeegggaagategaagteeeeggagagt 385
δ	548 ACGITCGTCTGCCCAGCCCTGACTGCCCTTCCCGAGGAGGGTCAAGCTGCCCGGGAAAT 607
QO	386 gctgcgagaagtgggtgtgcgaccccagggatgaagtgctcctgggaggctttgctatgg 445
δ	608 CCTGCGAGGAGTGGGTGTGAGGACCCAAACCGTGGTTGGGCCTGCCCTCG 667
QD	446 ctocatacagacagagaccacacttoggatagacotgtetoatteaagtoccaattgta 505
! !	
ð	668 CGGCTTACCGACTGGAAGACACGTTTGGCCCCAGACCCAACTAGATTAGAGCCAACTGCC 727

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Sequence

DB 6; S Matches

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Gallus domesticus WO9300430-A 07-JAN-1993

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Sep	Sep 22 22:07 Anome/pandya/spector/386680/US-08-167-628-1.mg
ò	675 CCGACTGGAAGACACGTTTGGCCCAGACCCAACTATGATTAGAGCCAACTGCCTGGTCCA 734
g a	317 gacaacagaatggagtgcttgttccaaaagctgtggaatgggctttctacccgtgttac 376 
à é	onverse de la consecuencia del la consecuencia
3 &	CARTGACAACGCCTCCTGCAGGCTAGAGAGCCGCCTGTGCATGCTCGCTG 85
qq	437 tgaa 440
δ	855 CGAA 858
RESULT	9 1.1
O S	3603
L E	(fir
	yeld
S S	stringent hybridisation; ss. Gallus domesticus.
	HO9300430-A. 07_18-1903
I H	25-JUN-1922; F00589.
	25-JUN-1991; ER-U0/80/. (CNRS ) CENT NAT RECH SCI.
	Martinerie C, Perbal B;
P	Nucleotide sequences hybridising to regions of chicken nov gene -
P	useful as proces for detecting comprementary sequences to evaluate development and/or differentiation of tumours
PS	Claim 7; Page 30; 67pp; French.
38	by avian myeloblastoma virus but not in normal adult kidney. A
ខ	1975bp cDNA sequence (Q36031) was isolated from a gene bank prepared from chicken embryonic fibroblasts screened with a tumour-derived
8	probe. Fragment VIII is derived from the 3rd. exon of the nov gene;
ខ	nucleotide sequences which hybridise to Fragment VIII under stringent
88	sequences preferably encode a protein with at least 70% homology to
පු සූ	R31602 which is encoded by Fragment VIII. Sequence 252 BP; 43 A; 76 C; 88 G; 45 T;
DB Ma	DB 6; Score 106; Match 77.0%; QryMatch 5.1%; Pred. No. 1.64e-41; Matches 151; Conservative 0; Mismatches 45; Indels 0; Gaps 0;
DP	18 ctgcgtgttcgatggatgattaccgcaacggggagacgttccagcccagctgcaagta 77
δλ	435 CTGCATCTTCGGTGGTACGGTGTACGCGAGAGTCCTTCCAGAGCAGCTGCAAGTA 494
Op QC	78 ccaqtgcacctgccgggacgggcagatcgggtgcctgcccgctgcaacctgggcctgct 137
Qγ	495 CCACTGCACGTGCCTGGACGGGGGCGGTGCGCATGCCCCTGTGCATGGACGTTCG 554
ΩP	138 getececggececgaetgecettecegeggaagategaagtececggagagtgetgega 197
Qy	555 TCTGCCCAGCCCTGACTGCCCTTCCCGAGGGGGCTCAAGCTGCCCGGGAATGCTGCGG 614
qq	198 gaagtgggtgtgcgac 213
δy	615 GGACTGCTGTGCAC 630

4; Gaps

2; Indels

26 T;

07-JAN-1993. WO9300430-A.

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RESULT

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OryMatch 5.0%; Pred. No. 7.54e-40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    using two probes. The probes were prepd, from untreated AKR-2B mRNA and AKR-2B mRNA from cells treated with cyclohexamide and TGF-betal. Hybridising colonies were isolated and two clones (beta-IG-MI and beta-IG-M2) were then sequenced. The DNA encodes proteins that have a 80 and 50 percent homology respectively with the CEF-10
                                                                                                                                                                   The invention includes nucleotide sequences which encode amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The DNA encoding mouse beta-IG-M1 was obtd. from AKR-2B mouse cells
                                                                                                                                                                                            sequences with at least 80% homology to sequence XXX (R31611), i.e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    induced with TGF-betal and cyclohexamide. Poly RNA extracted from
                                                                                                                                                                                                                                                                                                                                                                                                            1 ctgctctcgcagcttaccgactggaagacacgtttggcccagacccaactatgattagag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gene for beta-IG-M1.
Transforming growth factor beta; induced; CEF-10; v-src; chicken;
embryo; fibroblasts; TGF-beta; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            these cells was used to create a cDNA library which was screened
                                                                                                                                                                                                                                        sequences preferably encode the amino acid sequence XXXI (R31612)
                      Martinerie C, Perbal B; WPI; 93-036377/04.
NDLieotide sequences hybridising to regions of chicken nov gene
                                                                                                                                                                                                                  to part of the chicken nov protein encoded by the 4th. exon.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              proteins encoded by TGF-beta induced genes are likely to be involved in mediation of the biological effects of TGF-beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGF-beta induced gene family - encodes proteins involved in
                                                                                          useful as probes for detecting complementary sequences to evaluate development and/or differentiation of tumours
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein induced by v-src in chicken embryo fibroblasts.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             growth and differentiation effects of TGF-beta-1
                                                                                                                                                                                                                                                                                35 G;
                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Brunner AM, Chinn J, Neubauer MG, Purchio AF;
                                                                                                                                                                                                                                                                  and have the nucleotide sequence XXXII.
                                                                                                                                                                                                                                                                                      40 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                           Disclosure; Page 42; 67pp; French.
                                                                                                                                                                                                                                                                                                                                     Match 95.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (BRIM ) BRISTOL-MYERS SQUIBB CO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q26421 standard; cDNA; 2028 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 6; Fig 1; 35pp; English.
                                                                                                                                                                                                                                                                                      30 A;
                                                                                                                                                                                                                                                                                                                                                             129; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18-JAN-1993 (first entry)
SCI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 117 tctccacccgggtta 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-JAN-1992; 300429.
18-JAN-1991; US-642991.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-JAN-1992; US-816270.
(CNRS ) CENT NAT RECH
                                                                                                                                                                                                                                                                                                                                       103;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 131 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 92-243508/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P-PSDB; R25565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus musculus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-JUL-1992
                                                                                                                                                                                                                                                                                                                                       Score
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probe. Fragment XXIV (Q36045) is part of the 3rd exon of the nov gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     106; Match 77.0%; QryMatch 5.1%; Pred. No. 1.64e-41;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nucleotide sequences which hybridise to Fragment XXIV under stringent conditions (i.e. 50% formamide, 5 x SCC) are claimed. (N.B. the sequence XXIV is described as an amino acid sequence in the claims but is described correctly in the disclosure).

Sequence 196 BP; 32 A; 65 C; 66 G; 33 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ccaqtgcacctgccgggacgggcagatcgggtgcctgcccggctgcaacctgggcctgct 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    getececggececgaetgececttecegeggaagategaagteeeeggagagtgetgega 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  555 TCTGCCCAGCCCTGACTGCCCCTTCCCGAGGGTCAAGCTGCCCGGGAAATGCTGCGA 614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1975bp cDNA sequence (Q36031) was isolated from a gene bank prepared
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 ctgcgtgttcgatgggatgatttaccgcaacggggagacgttccagcccagctgcaagta 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The chicken nov gene is stimulated in avian nephroblastoma induced by avian myeloblastoma virus but not in normal adult kidney. A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           from chicken embryonic fibroblasts screened with a tumour-derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fragment XXXII encodes protein homologous to chicken nov protein. avian nephroblastoma; avian myeloblastoma virus;
                                                                                                                                                                                                                                                                                                                                                         Martinerie C, Perbal B;
MP1; 93-036377/04.
Nucleotide sequences hybridising to regions of chicken nov gene -
useful as probes for detecting complementary sequences to
evaluate development and/or differentiation of tumours
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches 45; Indels
                                                                                                                                                                 avian nephroblastoma; avian myeloblastoma virus;
                                                                                                                                             Chicken nov gene exon 3 fragment XXIV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 24; Page 40; 67pp; French.
                                                                  Q36045 standard; cDNA; 196 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q36049 standard; DNA; 131 BP.
                                                                                                                                                                                            stringent hybridisation; ss.
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24-MAY-1993 (first entry)
                                                                                                                   24-MAY-1993 (first entry)
                                                                                                                                                                                                                                                                                                            25-JUN-1991; FR-007807.
(CNRS ) CENT NAT RECH SCI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             151; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181 gaagtgggtgtgcgac 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               615 GGAGTGGGTGTGAC 630
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25-JUN-1991; FR-007807.
                                                                                                                                                                                                                                                                                      25-JUN-1992; F00589.
                                                                                                                                                                                                                    Gallus domesticus.
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6; Score

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Matches

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981 gaagtgcgtccttgtggacaaccagtgtacagcagcctaaaaaagggcaagaaatgcagc 1040
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   accagaactgtgaagatgcggttccgatgcgaagatggagagatgttttccaagaatgtc 1220
                                                                     Match 61.1%; QryMatch 4.2%; Pred. No. 1.28e-31;
                                                                                                                                                                                                                                                                                                                                                                                                                aaataccggcccaaatactgcggctcctgcgtagatggccggtgctgcacacctctgcag 1160
                                                                                                                                                                                                                                                                                                                                                                                                                                                 961 ACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCCCACAGA 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1021 ACCACCACCCTGCCGGTGGAGTTCAAGTGCCCTGACGCGCGAGGTCATGAAGAAGAACATG 1080
                                                                                                                                                                                            aaatgcatcgttcagaccacgtcttggtcccagtgctccaagagctgcggaactggcatc 920
                                                                                                                                                         721 AACTGCCTGGTCCAGACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATC 780
                                                                                                                                                                                                                                                                                                      841 ATGGTCAGGCCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAAGGGCCAAAAAGTGCATC 900
                                                                                                                                                                                                                                                                                                                                                              0; Gaps
                                    455 T;
                                                                                    0; Mismatches 155; Indels
                                  528 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1221 atgatgatccagtcctgcaaatgtaactacaactgccc 1258
relating to cell growth and differentiation.
                                  535 C;
                                  510 A;
                                                                                     Conservative
                                  2028 BP;
                                                                     88;
                  See also 026422
                                                                                       243;
                                                                     DB 4; Score
                                    Sequence
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010572; 09-APR-1991 (first entry) Human Natriuretic Peptide Receptor B. NPRB; ANP; BNP; CNP; kidney failure; heart failure; protein kinase; hyperaldosteronism; glaucoma; guanyl cyclase. /note= "binds natriuretic peptides A,B and C]\* /note= "GC and protien kinase activity" Location/Qualifiers Q10572 standard; DNA; 1047 BP /label= transmembrane domain Domain 479..1047 /label= extracellular domain /label= cytoplasmic domain 456..456 /label= N-glycos site Modified -site 161..163 /label= N-glycos site Modified -site 195..197 /label= signal sequence 23..455 /label= N-glycos\_site Modified -site 35..37 /label= mature NPBR Modified -site Homo sapiens. Peptide Protein Domain Domain 

NPRB analogues. The protein has a mol wt. of 115 kD (calculated Mr=114,952). The protein (or variants) can be used in treatment of natriuretic peptide disorders, and also to isolate peptides using affinity chromatography. Antibodies with affinity for NPRB can for the prodn. of the protein, opt. after being mutated to produce The sequence was derived from the DNA encoding natriuretic peptide receptor B, NPRB, having guanyl cyclase (GC) activity and protein kinase activity. The DNA can be inserted into expression vectors kidney failure, heart failure, hyperaldosteronism, glaucoma etc. Claim 3; Fig 1; 49pp; English. Natriuretic protein receptor B - for diagnosis and treatment of 51 T; 83 G; 15 C; 87 A; ä (GETH.) GENEYECH INC. Chang M, Goeddel D, Lowe D WPI; 91-036711/05. N-PSDB; Q10324. /label= N-glycos site Modified -site 277..279 /label= N-glycos site Modified -site 244..246 /label= N-glycos site Modified -site 349..351 Modified -site 600..602 22-JUN-1990; U03586. 23-JUN-1989; US-370673. /label= N-glycos site /label= N-glycos site 1047 BP; kinase activity. also be prepd WO9100292-A. 10-JAN-1991 Sequence 

Pred. No. 2.72e-27; 186 gvnnanngsnnsvnhnvyarnnggnnnathnnrangrnvyncgnnnmnhnnnnanrnnn 245 246 tngdyvnnyndvngnsnragntratgrnwndnrtrnnananrnanntvnvntyrnnnnnn 305 306 ynnnnnrnnnrarndngvnngnsnmnnnagcnydgnnnyanvnnntnnnggtrndgnrnv 365 334 ACCGAGCGCGACCCCTGCGACCCGCACAAGGGCCTTCTTGTGACTTCGGCTCCCCGGCC 393 366 nkmngrryhgvtgnvvmdknndrntdnvnwamgdndsgdnnnaahysganknnwwtgrnn 425 604 274 CICGIGCIGGACGCTGCTGCTGCCGCGTCTGCGCCCAAGCAGCTGGGCGAGCTGTGC 333 394 AACCGCA-AGAT-CGGCGTGTGCACCGCCAAAGATGGTGCTCCCTGCATCTTCGGTGGTA 451 126 nwykgannsdnnncandnddnscdktnnstnanvangtgntnnmngyssnnnnrknmnnk 485 152 CGGTGTACCGCAGCGGAGAGTCCTTCCAGAGCAGCTGCAAGTACCAGTGCACGTGCCTGG 511 486 nnasmnwrn-rwnnnnngnsnryhkgagsrntnsnrgssygsnmtahgkynnnantghnk 544 512 ACGGGGGGGGGGCTGCATGCCCCTGTGCAGCATGGACGTTCGTCTGCCCAGCCCTGACT 571 572 GCCCCTTCCCGAGGAGGGTCAAGCTGCCCGGGAAATGCTGCGAGGAGTGGTGTGTGACG 631 545 gnvvankhvnkkrnnntrnvnnnnkhmrdvnnnhntrnngacndnnnncnvtnycnrgsn Indels 80; Match 9.5%; QryMatch 3.9%; Mismatches 532; 80; Conservative 223; :: :: :: DB 2; Score Matches 80; g 쇰 g 음 쇰 ð 8 ð ð 셤 ð ò ð

605 ndnnnndsnnndwmnrysnnndnvkgmannhnsnnsshgsnkssncvvdsrnvnkntdyg 664

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Modified -site 349..351

/label= N-glycos site Modified -site 244..246 /label= N-glycos site Modified -site 277..279

/label= N-glycos\_site

/label= N-glycos site Modified -site 195..197

Indels 13; Gaps 12; 85 vdnknyhdndnnngngcvynaasvarnashwrnnnntagavasgnsakndhyrtnvrtgn 144 504 snryhkgagsrntnsnrgssygsnmtahgkynnnantghnkgnvvankhvnkkrnnntrn 563 145 sankngnnvvtnhghnn\*taraannyndartddrnhyntnngvnnanngsnnsvnhnvya 204 rnnggnnnathnnrangrnvyncgnnnmnhnnnnnanrnnntngdyvnnyndvngnønra 264 ngnsnmnnnagcnydqnnnyanvnnntnnnggtrndgnrnvnkmngrryhgvtgnvvmdk 384 385 nndrntdnvnwamgdndsgdnnnaahysganknnwwtgrnnnwvkgannsdnnncandnd 444 674 TAAGCCGCGAGGCCAGCCCCAACCACGGTTTGGTCCTTGGGCTCGTCACACCCCACTCC 615 dnscdktnnstnanvangtgntnnmngvssnnnnrknmnnknnasmnwrnr-wnnnnngn 503 Pred. No. 9.36e-27; 970 CTCGGTATGTCTTCATGCTGGTGCAGCCAGAAAGCTCAAACTTGATAGGCTTGGAGATTT 911 850 GCCTGACCATGCACAGGCGGCTCTGCTTCTTAGCCTGCAGGAGGCGTTGTCATTGGTAA 791 NPRB analogues. The protein has a mol wt. of 115 kD (calculated Mr= kinase activity. The DNA can be inserted into expression vectors for the prodn. of the protein, opt. after being mutated to produce The sequence was derived from the DNA encoding natriuretic peptide receptor B, NPRB, having guanyl cyclase (GC) activity and protein kinase activity. The DNA can be inserted into expression vectors 910 TGGGAGTACGGATGCACTTTTTGCCCTTCTTAATGTTCTTTCCAGGTCAGCTTCGCAAG gntratgrnwndnrtrnnananrnanntvnvntyrnnnnnnynnnnrnnnrarndngvn natriuretic peptide disorders, and also to isolate peptides using affinity chromatography. Antibodies with affinity for NPRB can 733 GGACCAGGCAG-TTGGCTCTAATCATAGTTGGGTCTGGGCCAAACGTGTCTTCCAGTCGG 614 TCGCAGCATTTCCCGGGCAGCTTGACCCTCCTCGGGAAGGGGCCAGTCAGGGCTGGGCAGA 554 CGAACGTCCATGCTGCACAGGGGCATGCAGCCCACCGCCCCGTCCAGGCACGTGCACTG-564 vnnnnkhmrdvnnnhntrnngacndnnnncnvtnycnrgsnndnnnndsnnndwmnrysn The protein (or variants) can be used in treatment of Natriuretic protein receptor B - for diagnosis and treatment of kidney failure, heart failure, hyperaldosteronism, glaucoma etc. Claim 3; Fig 1; 49pp; English. 51 T; 79; Match 9.1%; OryMatch 3.8%; 86; Conservative 270; Mismatches 578; 83 G; :: 15 C; 87 A; ö Chang M, Goeddel D, Lowe WPI; 91-036711/05. N-PSDB; Q10324. /label= N-glycos site Modified -site 600..602 10-JAN-1991, 22-JUN-1990; U03586, 23-JUN-1989; US-370673, (GETH ) GENENTECH INC. /label= N-glycos\_site 1047 BP; also be prepd. WO9100292-A. 114,952). 2; Score Sequence 205 265 325 445 Matches 图 g g, g გ 셤 გ 合 გ 유 გ 셤 g 염 g 쇰 셤 ე 셤

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OryMatch 3.1%; Pred. No. 2.43e-19; ismatches 62; Indels 0; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    330 GTCCAGACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGGCATCTCCACCCGG 789
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130 gccgtgggctgcattcctctgtgtccccaagaactatctctccccaacttgggctgtccc 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 14; Page 34; 67pp; French.
This sequence is homologous to exon 3 of the CTGF gene and was used as a probe in Northern hybridisations with different human tissues and cell lines. Probes homologous to exon 2 of the chicken nov gene and to exon 4 of the CTGF gene (Q36035 and Q36040, respectively)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     were also used in the hybridisation experiments. The results showed that the human homologue of the chicken nov gene and the CTGF gene
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                                                                                    1 gettacaggccagaagccaccctaggagtagaagtetetgactcaagtgtcaactgcatt
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                                                                                                                                                                                                                                                                      24-MAV'1993 (first entry)
Homologous to exon 3 of CTGF gene.
avian nephroblastoma; avian myeloblastoma virus;
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Homologous to exon 4 of CTGF gene.
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Q36039 standard; cDNA; 216
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25-JUN-1991; FR-007807.
(CNRS ) CENT NAT RECH SCI.
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                                                                                                                684 knntannnnsgnnnnttgmnaadvysngnnnnnanrsgnnynngndnsnknrwrng 743
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                     nndnvkgmannhnsnnsshgsnkssncvvdsrnvnkntdygnasnrstannddnnanyak 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            expressed by in vivo or in vitro translation using sense RNA or
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P-PSDB; R46078.
cDNA of human origin and proteins coded by it - which may be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mRNA expressed in human fibrosarcoma cell line HT-1080 was
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Q57417 standard; cDNA to mRNA; 372 BP.

9-0CT-1994 (first entry)

057417;

RESULT

CYR61 like protein.

Homo sapiens. WO9403599-A.

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Claim 1; Page 32-33; 167pp; Japanese.

(SAGA ) SAGAMI CHEM RES CENTRE. Iwahori A, Kato S, Kato T, Kim N,

17-FEB-1994. 04-AUG-1993; J011095. 04-AUG-1992; JP-208077. 13-NVV-1992; JP-377619. 26-FEB-1993; JP-061431.

95 C;

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Relea Copyr	Release 2.1D John F. Collins, Biocomputing Research Unit. Copyright (c) 1993, 1994, 1995 University of Edinburgh, U.K. Distribution rights by IntelliGenetics, Inc.	
MPsrch_nn n.a.	n.a. database search, using Smith-Waterman algorithm	
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Database:

Mean 12.417; Variance 7.139; scale 1.739 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

	Pred. No.	. !	tiss 0.	sue gro 0.00e+00	ç	1ence. 0.00e+00	'n	-	9	cel 4	protei 8	A, com 1.	qene e 9.25e-23	gene e 6.81e-21	gene e 4.80e-19	actor i 7.98e-18	е 4.		-	æ	dinucleoti 2.27e-07	se 7.	۵,	se 7.	c 2.	۲;	~	7	2.	(D2S172) D 2.74e-06	2.	.2	~	2.	а 9	9.36e-0	4 se 9.	0 250	ח-206-0	p 9.36e-0 la 9.36e-0
	Description		Human connective	connective tissue	H.sapiens mRNA	Mouse mRNA sequence	FISP-12	FISP-12	m you au	Coturnix japoni	EF-10	Mouse Cyr61 mRNA, com	H.sapiens novH gene	H.sapiens novH	novH	Mouse growth factor	H.sapiens novH gene	B.taurus microsatelli	B.taurus microsatelli		Ovis aries dinu	Human chromosome 4	S.scrofa pseudogene	Human chromosome 4		sapiens	H. sapiens (DXS)	Gorilla gorilla dinuc	yj90h07.sl Homo sapie	H. sapiens (D2S	aple	Mouse gastric (	S.scrofa genomic DNA	B.taurus microsatelli	Human m2 muscarinic	Human lysyl hydroxyla	Human chromosome	Human simple repeat		
SUMMARIES	er er		HUMCONGRO	556201	HSCTGF	MUSTGFB	MUSFISP12B	MUSFISP12A	GGNOVMRNA	CJU13063	CHKCEF	MUSCYR61A	HSNOVH5	HSNOVH4	HSNOVH3	MMCYR61G	HSNOVH12	BTMSAT90	BTMSAT90	HS154XC7	SHPMAF4P	HUM4STS367	SSMIC	HUM4STS439	MMD3NDS3	HS345WH9	HS116XG1	GGU23939	R72445	HS248WC5	HUMVTR14K	MUSATP4B1	SS13N06R	BTMSINRBN	HSU19800	HSI,OD3	HUM4STS237	HUMS IRPOBN		HSPLOD3
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	Score		2075	2075	2022	921	606	354	264	252	127	88	89	65	62	09	25	44	44	43	42	41	41	41	40	40	40	40	40	40	40	40	40	40	33	33	33	33		39
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c 43 44 44 45	RESULT LOCUS DEFINITION ACCESSION KEYWORDS SOURCE ORGANISM	REFERENCE AUTHORS TITLE JOURNAL MEDLINE	COMMENT FEATURES SOURCE	mRNA 8 ig_ CDS	mat_p BASE COUNT ORIGIN	DB 48; Matches	0b 1	0b 61 Qy 61

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δ	1201	CTCATTAGACTGGAACTTGAACTGATTCACATCTCATTTTTCCGTAAAAATGATTTCA 1	260
QQ	1261	lagoacaagttatttaatttattttttaactgggggaaaagattcccaccca	32
ò	1261	ACCACAAGTTATTTAAATCTGTTTTTCTAACTGGGGGAAAAGATTCCCACCCA	320
qq	1321	ttgtgccatgtcaaacaaatagtctatcttccccagacactggtttgaagaatgt 1	
δλ	1321	CATTGTGCCATGTCAAACAAATAGTCTATGTTCCCCAGACACTGGTTTGAAGAATGT	380
qq	1381	actacattagtacacagcaccagaatgtatattaaggtgtggc	440
δy	1381	AAGACTTGACAGTGGAACTACATTAGTACACAGCACCAGAATGTATTAAGGTGTGGG	1440
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q	601	gaggagtggtgtgtgacgagcccaaggacca	099
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e G	1081	aagacctgtgcctgccattacaactgtcccggagacaatgacat	1140
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HSCTGF 2312 bp RNA PRI H.sapiens mRNA for connective tissue growth

connective tissue; growth factor

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DEFINITION ACCESSION KEYWORDS

RESULT LOCUS

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SOURCE		
OKGANISA	Homo Sapler Eukaryotae, Metazoa; Eu Vertebrata, Tetrapoda;	Homo sapisms  Ekkaryotae; mitochondrial eukaryotes; Metazoa/Eumycota group;  Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata;  Vertebrata; Gnathostomata; Osteichthyes; Sarcopterygii; Choanata;  Tetrapoda; Anniota; Mammalia; Theria; Eutheria; Archonta; Primates;
REFERENCE AUTHORS	l (bases 1 Oemar, B.S.,	to 2312) Werner, A., Yang, Z., Garnier, J.M., Gentz, R. and
TITLE	Luescher, T.F. Differential cloning growth factor	and expression of human connective tissue
JOURNAL	Unpubli	
REFERENCE		
AUTHOKS	oks Cemar, B.S. Direct Submission	
JOURNAL	ΑΓ	Submitted (22-APR-1994) to the EMBL/GenBank/DDBJ databases. B.S.
	Vemar, University Hospita Research, Hebelstr. 20, 4	al basel, Dept of Research, Lab of Vascular 4031 Basel, SWITZERLAND
COMMENT	NCBI gi:	810
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	/organism="Homo sapiens"	sapiens"
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BASE COU	COUNT 572 a 594 c 585 IN	g 561 t
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Dp 1.	17 cccggccgacagccccgagacgacagc	ccoggccgacagccccgagacgacagcccggcgcgcgcccaggtcccacctccgaccaccg 76
Qγ	1 cccgcccacacccccaagacgacaag	cceecctrccetrcccactrcaccacc
Dp 1.	77 ccagegetecaggeecegegeteeeeg	getegecaccagagecetecactccgccagea 136
0у 6	61 CCAGCGCTCCAGGCCCCGCGCTCCCG	ccaecectccaegcccegectcccectcecectcccccccccc
Db 13'	137 gtgccaaccatgaccgccgccagtatg	gtgccaaccatgacgccgccagtatgggcccgtccggtggccttcgtggtcctcctc 196
Qy 12:	121 GTGCCAACCATGACCGCCGCCAGTATG	GGCCCCGTCCCTTCGTGTCTTTTTTTTTTTTTTTTTTT

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QQ	1157	gctgtactacaggaagatgtacggagacatggcatgaagccagagagtgagag	w
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δy	1201		0
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Qy	1261	SCACAAGTTATTTAAATCTGTTTTTCTAACTGGGGGAAAAGATTCCCACCCA	
qu	1337	aaacattgtgccatgtcaaacaaatagtctatcttccccagacactg	٠
Qy	1321	PATTETECCATETCAAACAAATAGTCTATCTTCCCCAGACACTGGTTTGAAGAATG	0
QU	1397	taagacttgacagtggaactacattagtacacagcaccagaatgtatattaaggtgtgg	y
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٥y	1441	TTTAGGAGCAGTGGGAGGGTACCGGCCCGGTTAGTATCATCAGATCGACTCTTATA	7
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٥y	1498	GAGTAATATGCCTGCTATTGCAGTAATTGAGAAGGAAAATTTTAGCGTGCTCACTGA 155	7
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ργ	1558	CCTGCCTGTAGCCCCCAGTGACAGCATGCTGCATTCTCCAGCCATCAGAGACACTGAGT	7
qu	1636	caagttgttc	
Qy	1618	CAACTICTTTAAGTCAGAAGAGGAGACTCAGCTCTGACATTCTGATTCGAATGACA	7
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Qy	1678	TGTTCAGGAATGGGAATGCTGGTCGATTAGACTGGACGTTGTGGCAAGTGAATTTGO	7
QQ	1755	gtaacaagccagatttttaaaaatttatattgtaaatattgtgtgtg	<b>*</b> **
Qγ	1738	GTAACAAGCCAGATTTTTAAAATTTATATTGTAAATATTGTGTGTG	7
QQ	1815	atatatatatatatatgtacagttatctaagttaatttaaagttgtttgt	~*
Qy	1798	ATATATATATATATATATCTACGTTATCTAAGTTAATTTAAAGTTGTTTGT	_
qu	1875	ttttgtttttaatgctttgatatttcaatgttagcctcaatttctgaacaccataggta	•
Qy	1858	TTTGTTTTTAATGCTTTGATATTTCAATGTTAGCCTCAATTTCTGAACGATGG	_
QQ	1935	aatgtaaagcttgtctgatcgttcaaagcatgaaatggatacttatatg	m
Qy	1918	AATGTAAAGCTTGTCTGATCGTTCAAAGCATGAAATGGATACTTATATGGAAATCTG	_
qq	1994	cagatagaatgacagtccgtcaaaacagattgttgcaaaggggaggcatcagt	<b>м</b>
Qy	1978	CAGATAGAATGACAGTCCGTCAAAACAGATTGTTTGCAAAGGGGAGGCATCAGTTG-TT	9
QD	2054	ggcaggctgatttctaggtaggaaatgtggtagctcac	
Qy	2037	GCCAGGCTGATTTCTAGGTAGGAAATGTGGTAGCTCACG 207	

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1991 1a;	growth	AAEAAPHCPA VCTAKDGAPC RRVKLPGKCC RELSGCTGSYK HYNCPGDNDI			0.00e+00; Gaps 29;	300	t 360   289		3 480 3 409	g 540 I
01-NOV-1991	A.F. insforming	ADDCSAQCQC GCSPANRLIG NLESPDCFPI VYQTTEWSAC YTPKTIARUYK			. No. 51;	gegeaatgt           GGCCGTGC	jetggaegge 	gegtgacccc	aagattgga            AAGATCGGC	scgcagcggt
ROD 01-rate; Mammalia;	Brunner, A., Chinn, J., Neubauer, M.G. and Purchio, A.F. Identification of a gene family regulated by transforming factor-beta DNA Cell Biol. 10, 293-300 (1991) 91229699 NCBI gi: 201945 Location/Qualifiers	/organism="Mus musculus" /oell_line="AKR-D8" /sequenced_mol="CDNA to mRNA" /sequenced_mol="CDNA to mRNA" 11.230 204.1250 /codon start=1 /transIation="MLASVAGPISIALVLIALCTRPATGQDCSAQCQCAAEAAPHCPA GYSIVLDGGCCGVCAYCAKQLGELCTERPPCDFHKGLFCDFGSPANRIGYCTAADGAPC FEWVCDFRYSGESFQSSCKYQCTCLDGAVGCVPLCSMOVRLPSPDCPFRRVKLPGKC FEWVCDFRYANGSPALAAYRLEDTFGPDFTMMRANCLVQTTEMSACSKTGGATS RYTNDWYFCRLEXQSRLCMYRPCEADLENIKKGRKCTRTPKIARRYGTSTTYRAKFCGVCTDGRCCTPHRTTTLPVEFKCPDGEIMKKNMMFIKTCACHYNCPGDNDI			44.4%; Pred 317; Indels	tggtgetectegeectetgeaeceggeetgetacgggecaggaetgeagegeaatgte 	adtgcgcagccgaagcgccgcactgcccgccgcggctgagcttggtgttgacggcggct 	geggetgetgecgegtetgegecaageagetgggagaactgtgtaeggagegtgaecect 	gcgacccacacaagggcctcttctgcgatttcggctccccggccaaccgcaagattggag 	tgtgcactgccaaagatggtgcacctgtgtcttcggtgggtcggtgtaccgcagcggtg 540 
MUSTGFB 2330 bp mRNA ROD MOUSE mRNA sequence. M80263 transforming growth factor-beta. MNS musculus cDNA to mRNA. MNS musculus to Animalia; Chordata; Vertebrata; Mamm. Eutheria; Rodentia; Myomorpha; Murinae 1 (bases 1 to 2330)	uer,M.G. au mily regul: (1991) s	musculus" -2B" -"cDNA to mRNA" -1ASVAGPISIALVI AKQLGELCTERDPC SSCKYQCTCLDGAVG SPIAAYXLEDIGE SPILAWYRPCEADIEG SPILAWYRPCEADIEG CTPHRTTILPVEFK		548 t	OryMatch Mismatches	getaegggee     -   CCGTCGGCG		ctgggagaac	tteggeteee            TTGGGCTCCO	gtcttcggtg
2330 bp mRNA guence. growth factor-beta cDNA to mRNA. imalia; Chordata; lentia; Myomorpha; lentia; occasa)	., Chinn,J., Neubauer,M. ation of a gene family r ta Biol. 10, 293-300 (1991) 201945	/organism="Wus musculus /organism="Wus musculus /oell line="ARR-2B" /sequenced_mol="cDNA to 11.2330 2041250 /note="NCBI gi: 201946" /note="NCBI gi: 201946" /codon start=1 /translation="MLASVAGPI /	8 start=1 47 start=1 296	595 g	h 80.8%; 0;	acccggcct           AGCCGGCCG	cegeactge	gccaagcag 	ttetgegat!          TTCTGTGAC	gcacctgt
MUSTGFB 2330 bp MOUSE mRNA sequence. M80263 transforming growth f Mus musculus cDNA to Mus musculus cDNA to Euckaryota; Animalia; Eutheria; Rodentia; M 1 (bases 1 to 2330)	Brunner, A., Chinn, i Identification of a Tactor-beta DNA Cell Biol. 10, 91229699 NCBI gi: 201945	1230 /organism="Mus /organism="Mus /sequenced_mol- 12330 2041250 /note="NCBI gi /note="NCBI gi /translation="" /transla	204278 /codon start=1 2791247 /codon start=1 22912296	2318 598 c	921; Match Conservative	geetetge 	gaagcagcg          GAGCCGCG	cgcgtctgc 	aagggeete                AAGGGCCTC	aaagatggt 
MUSTGEB MOUSE mRNA se M80263 transforming Mus musculus Mus musculus Eutaryots; Ar Eutheria; Roc	Brunner, A., Identificat. factor-beta DNA Cell Bi 91229699 NCBI gi: 20	:	ptide ptide gignal	8 8 8	Score 9 1544; Con	ggtgeteete            sgreereere	gtgegeagee	cggctgctgc 	cgacccacac 	gtgcactgcc 
LOCUS LOCUS DEFINITION ACCESSION KEYWORDS SOURCE ORGANISM	AUTHORS TITLE JOURNAL MEDLINE COMMENT FEATURES	BOULOGE MRNA CDS	sig_peptide mat_peptide	polya_site BASE COUNT ORIGIN	DB 57; So Matches	241 to	301 a		421 g	481 to
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661	tcaagctgcctgggaaatgctgcgaggagtgggtgtgtgacgaggcccaaggaccgcacag 720
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3 3	142	CONTRACTOR
DP Qy	1557	tagctgaggttattttaaaagcagcagtgtgcctactttttggagtgtaaccggggagg 1616 
Db Qy	1617	aaattatagcatgcttgcagacagacctgctctagcgagagctgagca-tgtgtcct 1672 
du Vo	1673	cca-ctag-atgaggctgagtccagctgttctttaagaacagcagtttcagctctg 1726 
Db Qy	1727	accattctgattccagtgacacttgtcaggagtcagagccttgtctgttagactggacag 1786 
Db Qy	1787	cttgtggcaagtaagtttgcctgtaacaagccagatttttattgatattgtaaata 1842 
do Vy	1843	ttgtgga-tatatatatatatatatattattgtacagttatctaagttaattt 1896 
g Q	1897	<pre>aaagtcatttgtt-tttgt-tttaagtgcttt-tgggattttaaactgatagcctc 1949      </pre>
g Sy	1950	aaactccaaacaccataggtaggacacgaagcttatctg-tgattcaaaacaaaggag 2006 
Db Qy	2007	atactgcagtgggaattgtgacctgagtgactctctgtcagaacaaaca
oy Oy	2067	ggtgataaagctatgtattggaagtcagatttctag-taggaaatgtggt 2115 
R SOE SEE	RESULT 5 LOCUS DEFINITION ACCESSION KEYMORDS SOURCE ORGANISM AUTHORS TITLE JOURNAL MEDLINE COMMENT FEATURES	MUSFISP12B 2267 bp mRNA ROD 09-JUL-1991  Musse FISP-12 protein (fisp-12) mRNA, complete cds.  M70642  cysteine-rich protein; growth factor-inducible gene.  Mus musculus (sub_species domesticus) liver/kidney cDNA to mRNA.  Eutheria; Rodentia; Momorpha; Wuridae; Murinae.  1 (bases 1 to 2267)  Ryseck, RP., MacDonald-Bravo, H., Mattei, MG. and Bravo, R.  Structure, mapphing and expression of fisp-12, a growth factor inducible gene encoding a secreted cysteine-rich protein  Cell Growth Differ. 2, 225-233 (1991)  NCBI gi: 193315  Location/Qualifiers

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ce 12267 /organism="Mus musculus" /sub grapecies="domesticus"	/sequenced mol="CDNA to mRNA" /tissue_type="liver/kidney" /38184 //nono_fice_type="liver/kidney"	/map="A3-B1" /note="NGB1 gi: 193316" /oddn start=1	/coon_exart=First-12 protein* /translation="MLASVAGPISIALVILALCTRPATGQDCSAQCQCAAEAAPHCPA /translation="MLASVAGPISIALVILALCTRPATGQDCSAQCQCAAEAAPHCPA GVSIVIDGGCGCYGVCAQCLGSTCTRPPCTGPHGGLECDFGSPANRICHGGTGAAFAAPHCPA GVSIVIDGGCGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	VEGSAY RASELS & BASCATOUT LIDGAVICA PLASMAN NEES BLOCE FRANKELS AND VEGSAY CONDERDENDEND OF BALLONG THE SANCE RECORD TO THE SA	signal.	570 s chromosor	Score 909; Match 81.9%; QryMatch 43.8%; Pred. No. 0.00e+00; 1353; Conservative 0; Mismatches 270; Indels 29; Gaps 19;		TGGTCCTCTCGCCCTCTGCAGCCGGCCGTCGGCCAAACTGCAGCGGGCCGTGCC 229	agtgcgcagccgaagcagcgcactgcccggcggcgtgagcctggtgctggacggct 29	GCTGCCCGGACGAGCCGCCGCCGCCCGGCCGGGCCTGAGCCTCGTGCTGGACGGCT	gcggctgctgctgccgtctgcgccaagcagctggagaactgtgtacggagcgtgaccct 35		gcgacccacacaagggcctcttctgcgatttcggctcccccgccaaccgcaagattggag 41.	GCGACCGGCACAGGGCCTCTTCTGTGACTTCGGCTCCCGGCCAACCGCAAGGATCGGCG	tgtgcactgccaaagatggtgcaccctgtgtcttcggtgggtcggtgtaccgcagcggtg 474	aqtocttocaaaqcaqotqcaaataccaatqcacttqcctqqatqqqqcqqqq 53			TGCCCCTGTGCAGCATGGACGTTCGTCTGCCCAGCCCTGACTGCCCTTCCCGAGGGGGG 589		TCAAGCTGCCGGGAATGCTGCGAGGAGTGGGTGTGTGTGT	5 cagttggccctgcctagctgcctaccgactggaagacacatttggcccagaccaacta 714	0 restreseccrecerecesectraceaactesaacacactreseccaacceaacta 709	${\tt tgatgcgagccaactgcctggtccagaccacagagtggagcgcctgttctaagacctgtg}$ 774
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0y	890 AAAAGTGCGTACTCCCAAAATCTCCAAGCCTATCAAGTTTGAGGTTTCTGGCTGCA 949
QΩ	955 ccagtgtgaagacatacagggctaagttctgcggggtgtgcacagacggccgctgctgca 1014
0y	950 CCAGCATGAAGACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCA 1009
С	caccgcacagaaccactctgccagtggagttcaaatgccccgatggcgagatcatga 107,
à	1010 CCCCCCACAGAACCACCACCTGCCGGTGGAGTTCAAGTGCCCTGACGCGGAGGTCATGA 1069
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q <sub>0</sub>	1135 acatctttgagtccctgtactacaggaagatgtacggagacatggcgtaaagccaggaag 1194
6y	1130 ACATCTTTGAATGGCTGTACTACAGGAAGATGTACGGACATGGCGTGAAGCCAGAGAG 1189
qq	1195 taagggacacgaactcattagactataacttgaactgagttgcatctcattttcttctgt 1254
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QQ	1314 ctatcccaccaaagtgagaacgttatgtcatggccatacaagtagtctgtcaacctcaga 1373
٥y	1305 AT-TCCCACCCATTCAAAACATTGTGCCATGTCAA-ACAAATAGTCTATCTTCCCAGA 1362
Op	1374 cactggtttcgagacagtttacacttgacagttgtt-cattagcgcacagtgccagaa 1430
٥	1363 CACTGGTTTGAAGAATGTTAAGACTTGACAGTGGAACTACATTAGTACACGCACCAGAA 1422
Dp	1431 cgcacactgaggtgagtctcctggaacagtggagatgccaggagaaagaa
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Qy 1657	0b 1723 to 0y 1717	Db 1779 40 YV 7771 VQ	RESULT LOCUS DEFINITION ACCESSION KEYWORDS SOURCE ORGANISM	REFERENCE AUTHORS TITLE	JOURNAL MEDLINE COMMENT FEATURES	source	TATA	exon	mRNA	CDS	intron	exon

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/gene="fisp-12"	/map="A3-B1" /number=2	intron 1455.1614 //non="fine-1?"	/geneisp_is /map="3"	exon 1675.196	/den== 118p-12 /map== 23-81" /	intron 1927.2058	/gene=_118p-12. /map==13-11. /	exon 2059, 2270	/gene="fisp-12" /map="%3-B1"	/number=4 intron 2271.2641	/gure= 1185-12 /map=43-B1" /map=e4	exon 2642	/den== 1.18p-1.2 /map==4.2-11 /map==6.2-12	BASE COUNT 1061 a 1039 c 984 g 1044 t	5; Sc	izuj comservative uj mismatches 192; indels 29;	Db 2640 agaagggcaaaagtgcatccggacacctaaaatcgccaagcctgtcaagtttgagcttt 2699	Db 2700 ctggctgcaccaqtgtgaagacatacagggctaagttctgcggggtgtgcacagacggcc 2759	Qy 941 crecrecaccarcaacaracaraccarccraarircreseagrarcraccaccaccecc 1000	Db 2760 gctgctgcacaccgcaccgaaccaccctgccaqtggagttcaaatgccccgatggcg 2819 	Ay 1001 GATGCTGCACCCCCACAGAACCACCACCCTGCGGTGCAGTTCAAGTGCCCTGACGGCG 1060	Db 2820 agatcatgaaaaagaatatgatgttcatcaagacctgtgcctgcc	Qy 1061 AGGTCATGAAGAACATGATGTTCATCAAGACCTGTGCCTGCC	Db 2880 gggacaatgacatctttgagtccctgtactacaggaagatgtacggagacatggcgtaaa 2939	Qy 1121 GAGACAATGATCTTTGAATCGCTGTACTACGGAGATGTACGGAGACATGGCATGAT 1180	Db 2940 gccaggaagtaagggacacgaactcattagactataacttgaactgagttgcatctcatt 2999	Qy 1181 GCCAGAGAGTGAGAGACTTAAACTCATTAGACTTGAACTTGAACTGATTCACATCTCATT 1240	Db 3000 ttottotgtaaaaacaattacagtagcacat-taatttaaatotgtttttaactacog 3058	Qy 1241 TTTCCGTAAAATGATTCAGTAGCACAAGTTATTTAAATCTGTTTTTCTAACTGG 1296	Db 3059 tgggaagtatcccaccaaagtgagaacgttatgtcatggccatacaagtagtctgtc 3118	Qy 1297 -GGGAAAAGAI-TCCCACCCAATTCAAAACAITGTGCCATGTCAA-ACAAATAGTCTAIC 1353

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REFE	REFERENCE AUTHORS	2 (bases 1 to 1976) Joliot, V., Martinerie, C., Dambrine, G., Plassiart, G., Brisac, M., Crochet, J. and Perbal R.
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446 547 506 mRNA 607 607 626 667 727 727 746 mat_pep 847 893 001G1N 803 001G1N	/note="NOBI gi: 532697" /codon_start=1 /product="alblar proto-oncogene protein Nov" /product="midlar proto-oncogene protein Nov" /product="alblar proto-oncogene protein Nov" /translation="MEPGGGHSLPVILLILLILIAPSEVNGREAPCRPCGGCCCUV LEGDNCVEDGMIYRNGETEQPSCKYQCTCRDGGIGCLPRCNIGLILPGPDCPFRKIE VPGECCEKWVCEPRDEVILGGFAMAAYRQEATLGIDVSDSANGIEOTTEGRASSCSSC GGMCFSTRVTNRNGGCEWVGTRLCWMRDCENEEPSDKKKKCIRTKKSMKAVRFEYN CTSVQTYKRPYCGLCNDGRCCTPHNTKTIQVEFRCPGKFLKFWMLINTCVCHGNCP GSNNAFFQPLDDPMSSEAKI" 473 a 450 c 489 g 515 t  Score 252; Match 65.3%; QryMatch 12.1%; Pred. No. 4.22e-150; 569; Conservative 0; Mismatches 299; Indels 3; Gaps 1; cgccgggctgggcccggggggggcccggggggggcgcgggggg	Db 864 aaccgcqttactqtgggcttctqcaatqatggggatqctqtaccccacacacacacacaca 923
566 667 CDS 626 626 626 686 686 887 727 746 mat_peptide 847 847 847 847 847 847 847 847 847 847	gcaagtaccagtgcacctgccgggacgggcagatcggctgcccgctgcaacctcg 446 [	rce
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Matches   Coccession   Cocces		
907 DB 73; Score 127; Match 67.8%; QryMatch 6.1%; Pred. No. 8.80e-62; Matches 125; Indels 3; Gaps 863  863 Db 159 gcgcgcagtgcgcccgggcgtgggctgggccggacggctgcggcggcgggggcgggggggg		eptide 120-11/9 /note="CEF-10 protein" /codon_start=1 417 a 492 c 459 g 437 t Unreported.
		DB 73; Score 127; Match 67.8%; QryMatch 6.1%; Pred. No. 8.80e-62; Aatches 270; Conservative 0; Mismatches 125; Indels 3; Gaps 159 gcgccgagtgcgcccgggcgtgggctggtgccggacggctgcggctgctgctgcaggtc 218

셤	864	864 aaccgcgttactgtggcctctgcaatgatggggggtggtgctgtaccccacacaca	923
δλ	896	968 GAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCTCTCTTTTTTTT	1027
Д.	924	924 cgattcaagttgagttccgctgtcctcagggcaaattcctgaaaaagccaatgatgttga 983	883
δ	1028	1028 CCCTGCCGTGGAGTTCAAGTGCCCTGACGGGTCATGAAGAGAACATGATGTTCA 1087	1087
q	984	984 tcaatacctgtgtcatggtaactgtcc 1014	
δ	1088	1088 TCAAGACCTGCGCTTACAACTGTCC 1118	

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t entry and computer-readable sequence for [1] kindly submitted "L.Simmons, 03-MAR-1989.
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KGKKCTKTKKSPSPVRETYAGCSSVKKYRPKYCGSCVDGRCCTPQQTRTVKIRFRCDD
GETFTKSVMMIQSCRCNYNCPHANEAYPFYRLVNDIHKFRD"
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                                                                                                                                                                                                                                                                                                                                      ons, D.L., Levy, D.B., Yannoni, Y. and Erikson, R.L. tification of a phorbol ester-repressible v-src-inducible gene .. Natl. Acad. Sci. U.S.A. 86, 1178-1182 (1989)
                                                                                          10 protein; TPA-repressible protein;
bol ester repressible protein; pp60 v-src inducible protein;
q inducible protein.
          15-SEP-1989
                                                                                                                                                                           ken embryo fibroblasts, cDNA to mRNA, infected with Rous come virus mutant tsNY72-4, clone CEF-10.
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          VRT
EF 1805 bp mRNA VR
ken CEF-10 protein mRNA, complete cds.
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(bases 1 to 1805)
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### home/pandya/spector386680/US-08-167-628-1 rge Sep 22 22 04

Score 88; Match 61.1%; QryMatch 4.2%; Pred. No. 1.39e-35; s 243; Conservative 0; Mismatches 155; Indels 0; Gaps 0;	aaatgcatcgttcagaccacgtcttggtccagtgctccaagagctgcggaactggcatc		5 tecacacgagttaccaatgacaacccagagtgccgctggtgaaagagacccggatctgt 984		gaagtgcgtccttgtggacaaccagtgtacagcagcctaaaaaagggcaagaaatgcagc		o aagaccaagaaatecceagaaccagteagatttacttatgeaggatgeteeagtgteaag 1104								11 HSNOWH5 1469 bp DNA PRI 01-DEC-1994 NA H services novel serve 5	n.saptens novn gene exon y X78354 novH gene.	humar		Vertebrata; Gnathostomata; Osteichthyes; Sarcopterygii; Choanata; Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Archonta; Primates;			Strong, L. and Perbal, B. Structural analysis of the human nov proto-oncogene and expression in Milmo times.			Per			Location/Qualifiers	/ tissue placental" / tissue placental"	/clone="LCIIU clone 2"
DB 55; Matches	865	721	925	9 6	985	841	1045	901	1105	961	1165	1021	1225	1081	] 	ACCESSION KEYWORDS	SOURCE			REFERENCE	AUTHORS	TITLE	JOURNAL	MEDLINE REFERENCE	AUTHORS	JOURNAL	COMMENT	FEATURES		
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Eukaryotae; mitochondrial eukaryotes; Metazoa/Eumycota group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Vertebrata; Gnathostomata; Osteichthyes; Sarcopterygii; Choanata; Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Archonta; Primates; Martinerie, C., Huff, V., Joubert, I., Badzioch, M., Saunders, G., Strong, L. and Perbal, B. Structural analysis of the human nov proto-oncogene and expression 941 CTGGCTGCACCAGCATGAAGACATACCGACTAAATTCTGTGGACTATGTACCGACGCC 1000 OryMatch 3.3%; Pred. No. 9.25e-23; 337 aaatagtcaagaagccagtgatggtcattgggacctgcacctgtcacaccaactgtccta 396 157 agaaaggaaaaaagtgtctccgcaccaagaagtcactcaaagccatccacctgcagttca 216 217 agaactgcaccagcctgcacacctacaagcccaggttctgtggggtctgcagtgatggcc 276 Submitted (21-MAR-1994) to the EMBL/GenBank/DDBJ databases. B. 0; Gaps 01-DEC-1994 Indels PRI 0; Mismatches 91; /note="SA4 (splice acceptor 4)" 412 t 'note="coding part of exon" Oncogene 9 (9), 2729-2732 (1994) /usedin=X78351:HsCDS 315 c 270 g /usedin=X78351:HsCDS Catarrhini; Hominidae; Homo. 1 (bases 1 to 435) H.sapiens novH gene exon 4. X78353 Match 63.6%; /chromosome="8" /map="8q24.1" 158 /gene="novH" 435 bp /gene="novH" /label=stp /label=ex5 Conservative (bases 1 to 435) 159..>455 /number=5 Direct Submission 159..455 in Wilms tumor ||||||| | 1121 GAGACAATGA 1130 : 89 397 agaacaatga 406 Homo sapiens novH gene. Perbal, B. 94336229 472 HSNOVH4 human. misc\_feature misc\_feature Score 159; 12 SOURCE DEFINITION BASE COUNT ACCESSION KEYWORDS TITLE JOURNAL exon Matches REFERENCE AUTHORS JOURNAL MEDLINE REFERENCE AUTHORS DB 46; TITLE ORIGIN LOCUS g 임 ò 셤 ð g ð g à ð

### Anome/pandya/spector386680/US-08-167-628-1 rge Sep 22 22:04

Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Vertebrata; Gnathostomata; Osteichthyes; Sarcopterygii; Choanata; Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Archonta; Primatee; Catarthini; Hominidae; Homo.

1 (bases 1 to 452)
Martinerie, C., Huff, V., Joubert, I., Badzioch, M., Saunders, G., Structural analysis of the human nov proto-oncogene and expression Perbal, Institut Curie, Centre Universitaire Batiment 110, 91405 Orsay, Cedex, FRANCE 7.2%; QryMatch 3.1%; Pred. No. 6.81e-21; 0; Mismatches 62; Indels 0; Gaps ( 104 gettacaggecagaagccacectaggagtagaagtetetgaetcaagtgtcaactgcatt 163 224 gtcaccaataggaaccgtcaatgtgagatgctgaaacagactcggctctgcatggtgcgg 283 670 GCTTACCGACTGGAAGACACGTTTGGCCCAGACCCAACTATAGAGCCAACTGCCTG 729 01-DEC-1994 Eukaryotae; mitochondrial eukaryotes; Metazoa/Eumycota group; PRI /note="SA3 (splice acceptor 3)" 105..319 /note="SD4 (splice donor 4)" 106 c 114 g 95 t /tissue type="placental" /organism="Homo sapiens" Oncogene 9 (9), 2729-2732 (1994) 94336229 /clone="LC78 clone 5" /usedin=X78351:HsCDS Location/Qualifiers 452 bp DNA H.sapiens novH gene exon 3. X78352 Match 67.2%; /chromosome="8" Strong, L. and Perbal, B. /map="8q24.1" /gene="novH" /gene="novH" /dene="novH" /label=ex4 Score 65; Match 127; Conservative 'qermline /number=4 1..435 NCBI gi: 587424 in Wilms tumor 105 Homo sapiens || || || || ccrrccaa 858 284 ccctgtgaa 292 120 a novH gene. human. misc\_feature misc\_feature source DEFINITION DB 46; S Matches ORGANISM BASE COUNT 850 REFERENCE AUTHORS MEDLINE ACCESSION JOURNAL exon FEATURES KEYWORDS TITLE RESULT COMMENT ORIGIN g g 염 ð ð δ ð

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TAVEGDNCVFDGVIYRSGEKFQPSCKFQCTCRDGQIGCVPRCQLDVLLPEPNCPAPRK
VEVPGECCEKWICGPDEDSLGGLTLAAYRPEATLGVEVSDSSVNCIEGYTEWTACSK
SCGMGFSTRVTNRNRQCEWLKQTRLCMVRPCEQEPEQPTDKKGKKKCLATKKSLKAIHL
QFKNCTSLHTYKPRFCGVCSDGRCCTPHNTKTIQAEFQCSPQJIVKKPVMVIGTCTCH
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Vertebrata; Gnathostomata; Osteichthyes; Sarcopterygii; Choanata;
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                                         taccaaaaacgggaaaagcttccagcccaactgtaaacaccagtgcacatgtattgatggc 3268
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X78354:159..455)
                                                                01-DEC-1994
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1 (bases 1 to 557)

Martinerie,C., Huff,V., Joubert,I., Badzioch,M., Saunders,G.,
Strong,L. and Perbal,B.
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0; Mismatches 58;
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/clone="LC84 clone I"
/chromosome="8"
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                                                                                                                             3269
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AUTHORS
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JOURNAL
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'qene="novH"

exon

#### home/pandya/spector386680/US-08-167-628-1 rge Sep 22 22:04

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52; Match 65.1%; QryMatch 2.5%; Pred. No. 4.80e-13;
                                                                                                                                                                                                                                                                                                                                                 403 tgtgtgcccgccagcgtggcgagagctgctcagatctggagccatgcgacgagagcagtg 462
                                                                                                                                                                                                                                                                                                           463 gcctctactgtgatcgcagcgcggacccagcaaccagactggcatctgcac 514
                                                                                                                                                                                                                                                                                                                                                                                                                                 365 GCCTCTTCTGTGACTTCGGCTCCCGGGCGAACGGCAAGATCGGCGTGTGCAC 416
                                                                                             'note="SA1 (splice acceptor 1)"
                                                                                                                                                                                           /note="SD2 (splice donor 2)"
                                                    'note="SD1 (splice donor 1)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Search completed: Fri Sep 22 22:17:14 1995
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                                       /gene="novH"
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              /label=ex1
                                                                                                                                                    /label=ex2
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Release 2.1D John F. Collins, Biocomputing Research Unit. Copyright (c) 1993, 1994, 1995 University of Edinburgh, U.K. Distribution rights by IntelliGenetics, Inc.

\*

n.a. - n.a. database search, using Smith-Waterman algorithm MPsrch nn

Fri Sep 22 21:50:12 1995; MasPar time 380.24 Seconds 832.372 Million cell updates/sec Run on:

Tabular output not generated.

>US-08-167-628-1 (1:2075) from 5408040.seq 2075 Title:

Description: Perfect Score: N.A. Sequence:

1 CCCGGCCGACACCCCGAGA......AGGAAATGTGGTAGCTCACG 2075 GGGCCGGCTGTCGGGGCTT......TCCTTTACACCATCGAGTGC Comp:

TABLE default Gap 6 Scoring table:

Dbase 0; Query 0 Nmatch STD: 225244 seqs, 76266140 bases x 2 Searched:

Database:

EST1 EST3 EST4 EST4 EST5 EST6 EST10 EST10 EST11 EST11 EST11 EST12 EST13 EST14 EST14 EST14 EST16 EST17 EST17

EST28
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EST31
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EST47
EST47  Mean 11.925; Variance 2.639; scale 4.519 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

		olo					
Result		Query					
No.	Score	Match	Match Length DB	图	8	Description	Pred. No.
1	291	14.0	506	58	T98687	ye61b01.rl Homo sapie	0.00e+00
2	249	12.0	264	26	T92313	Homo	0.00e+00
3	245	11.8	434	55	T86251	yd84f01.rl Homo sapie	0.00e+00
4	236	11.4	345	25	R37906	yh97e04.rl Homo sapie	0.00e+00
5	209	10.1	420	28	T98574	ye60al2.rl Homo sapie	2.67e-317
9	506	6.6	376	16	R06961	yf12g05.rl Homo sapie	9.94e - 312
7	198	9.5	357	45	T49714	ya80a10.rl Homo sapie	6.14e-297
00	187	9.0	331	26	T92598	ye26f01.s1 Homo sapie	1.16e-276
o 0	172	8.3	410	-	T65929	yc24e08.sl Homo sapie	3.81e-249
c 10	169	8.1	408	45	T49715	ya80a10.sl Homo sapie	1.16e-243
11	167	8.0	365		T53387	ya88f03.rl Homo sapie	5.21e-240
12	157	7.6	205	46	T53524	ya96b01.rl Homo sapie	8.41e-222
c 13	155	7.5	404		T27642	EST10485 Homo sapiens	3.59e-218
14	139	6.7		49	T64503	yc24e08.rl Homo sapie	2.86e-189
c 15	124	9.0		m	HHEA4 6W	H. sapiens partial cD	1,88e-162
c 16	16	4.7		ഹ	T92268		4.29e-115
c 17	94	4.5			R49034	yq65h08.sl Homo sapie	6.30e-110
c 18	91	4.4		24	R37824	yh97e03.sl Homo sapie	8.79e-105
c 19	81	3.9			T53388	ya88f03.s1 Homo sapie	7.99e-88
c 20	80	3.9			T98575	ye60a12.s1 Homo sapie	3.80e - 86
2 2	75	3.6	411	80	T98637	ve61b01.sl Homo sapie	8.22e-78

-1.rgc	1.18e-56	1.18e-56	1.41e-42	9.86e-21	2.23e-19	2.23e-19	2.23e-19	2.23e-19	2.23e-19	4.87e-18	4.87e-18	1.02e-16	2.05e-15	2.05e-15	3.94e-14	3.94e-14	3.94e-14	7.22e-13	7.22e-13	7.22e-13	7.22e-13	7.22e-13	7.22e-13	7.22e-13
67-628	o sapie		o sapie	o sapie	sapie c	sapie	Homo sapie	sapiens	Homo sapie	o sapie	saple o	sapie	sapie	Homo sapie	partial cD	partial cD	o sapie	sapiens	Homo sapie	sapie c	sapie	Homo sapie	putatively	Homo sapie
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home:pandya/spactor386680/eat/135-08-167-628-1.rge	R16276		T86143	R09732	R43932	R54590	T47099	T07122	R06912	T71627	T80892	T58750	T96616	T89955	HSC0SA082	HSC2TC062	T91101	T07131	R63483	T97712	T57458	R50724	HSAAAAVGP	R51961
3	61 61	57	55	11	56	59	45	35	16	51	53	47	28	26	9	임	26	32	32	28	47	88	4	29
epan	429	377	28	93	438	437	399	273	37	525	356	265	282	485	169	169	387	331	475	460	328	251	327	427
Mon	3.0	3.0	5.6	1.8	1.8	1.8	8.7	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
21:44	62	62	23	38	37	37	31	31	37	36	36	35	34	34	33	33	33	32	32	35	32	32	32	32
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#### ALIGNMENTS

RESULT 1	
TOCUS	
DEFINITION	ye61b01.r1 Homo sapiens cDNA clone 122185 5' similar to gb:M92934 CONNECTIVE TISSUE GROWTH FACTOR PRECURSOR (HUMAN);
ACCESS ION KEYWORDS	198687 EST.
SOURCE	human clone-12185 library-Soares fetal liver spleen INFLS
	<pre>vector=pT/T3D (Pharmacia) with a modified polylinker host=DH10B (ampicillin resistant) primer=M13RP1 Rsite1=Pac I Rsite2=Eco R1</pre>
	Liver and spleen from a 20 week-post conception male fetus. 1st
	strand cDNA was primed with a Pac I - oligo (dT) primer [5'
	AACTGGAAGAATTAATTAAAGATCTTTTTTTTTTTTTTT
	I and cloned into the Pac I and Eco RI sites of the modified pT7T3
	vector. Library went through one round of normalization. Library
	constructed by Bento Soares and M.Fatima Bonaldo.
ORGANISM	Homo sapiens
	Eucaryotae; Metazoa; Chordata; Vertebrata; Gnathostomata; Mammalía;
	Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 (bases 1 to 506)
AUTHORS	Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M.,
	Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M.,
	Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F.,
	Trevaskis, E., Waterston, R., Williamson, A., Wohldmann, P. and
	Wilson, R.
TITLE	The WashU-Merck EST Project
JOURNAL	Unpublished (1995)
	Contact: Wilson RK
	WashU-Merck EST Project
•	4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
	Tel: 314 286 1800 Fax: 314 286 1810
	.wustl.edu
	High qality sequence stops: 303

human clone=118142 library=Stratagene lung (#937210)
vector=pBluescript SK- host=SOLR cells (kanamycin resistant)
primer=M13RP1 Rsite1=EcoRI Rsite2=XhoI Normal lung tissue from a 72
year old male. Cloned unidirectionally. Primer: Oligo dT. Average
insert size: 1.0 kb; Uni-ZAP XR Vector; 5' adaptor sequence:

T92313 264 bp mRNA EST 22-MAR-1995 ye18908.rl Homo sapiens cDNA clone 118142 5' similar to gb:M92934 CONNECTIVE TISSUE GROWTH FACTOR PRECURSOR (HUMAN);.

T92313

ACCESSION KEYWORDS SOURCE

DEFINITION

LOCUS

Eucaryotae; Metazoa; Chordata; Vertebrata; Gnathostomata; Mammalia;

5'-GAATTCGCCACGAG-3'; 3' adaptor sequence:

5'-CTCGAGTTTTTTTTTTTTTT-3'.

Homo sapiens

ORGANISM

REFERENCE AUTHORS

Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 264)

Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M.,

Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M.,

Parsons, J., Rifkin, L., Rohlfing, T., Tan, F., Trevaskis, E.,

WashU-Merck EST Project

WashU-Merck EST Project

Unpublished (1995)

JOURNAL

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291; Match 96.3%; QryMatch 14.0%; Pred. No. 0.00e+00; onservative 0; Mismatches 9; Indels 3; Gaps 3
Source: IMAGE Consortium, LINL
This clone is available royalty-free through LINL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                             1040 AGTICAAGIGCCCIGACGCGAGGICATGAAGAAGAACAIGAIGIICAI-CAAGACCIGI 1098
                                                                                                                                                                                                                                                                                                         60 ngancetggaagagaacattaagaagggcaaaagtgcatecgtacteccaaaateteca 119
                                                                                                                                                                                                                                                                                                                         120 agcctatcaagtttgagctttctggctgcaccagcatgaagacataccgagctaaattct 179
                                                                                                                                                                                                                                                                                                                                                                                      800 ACAACGCCTCCTGCAGGCTAGAAGCAGAGCCGCCTGTGCATGGTCAGGCCTTGCGAAG 859
                                                                                                                                                                                                                                              1 acaacgcctcctgcaggctagagaagcagano-gcctgtgcatggtcaggccttgcgaac 59
                                                                                                                                                     7 others
                                                                                                                                                       ų
                                                                                                                                                       124
                                                                                                         /organism="Homo sapiens"
/clone="122185"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300 gcctgccatttacaactgttcccggga 326
                                                                             Location/Qualifiers
                                                                                                                                                          Б
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                                                                                                                                      /note="human'
                                                                                                                                                                                                                Conservative
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                                                            NCBI gi: 748424
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315;
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yh97e04.rl Homo sapiens cDNA clone 137694 5' similar to gb:M92934 CONNECTIVE TISSUE GROWTH FACTOR PRECURSOR (HUMAN);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    yd84f01.rl Homo sapiens cDNA clone 114937 5' similar to qb:M92934 CONNECTIVE TISSUE GROWTH FACTOR PRECURSOR (HUMAN);
                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. 0.00e+00;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Liver and spleen from a 20 week-post conception male fetus. 1st
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          971 CTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCCACAGAACCACCACCA 1030
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              vector=pT7T3D (Pharmacia) with a modified polylinker host=DH10B
                                                                                                                                                                            This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ampicillin resistant) primer=M13RP1 Rsitel=Pac I Rsite2=Eco RI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                911 AAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAAGACATACCGAG 970
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ctaaattctgtggagtatgtaccgacggccgatgctgcacccccacagaaccaccacc 120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
                                                                                                                                                                                                                                                                                                                                                      1 others
                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    constructed by Bento Soares and M.Fatima Bonaldo
                                                                                                                                                                                                                                                                                                                                                                                                                249; Match 98.9%; QryMatch 12.0%;
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                                      Washington University School of Medicine
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                                                                                                                   Email: est@watson.wustl.edu
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Contact: Wilson RK
WashU-Merck EST Project
                                                                                                                                                                                                                                                                                                                                    /note="human"
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C
                                                                                                                                                                                                                                                                                                                                                                                                                                  261; Conservative
                                                                             Tel: 314 286 1800
                                                                                               Fax: 314 286 1810
                                                                                                                                                                                                                                    NCBI gi: 724226
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SOURCE
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RESULT

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04-MAY-1995

345 bp

#### 245; Match 94.7%; QryMatch 11.8%; Pred. No. 0.00e+00; This clone is available royalty-free through LLNL; contact the :MAGE Consortium (info@image.llnl.gov) for further information. 241 242 gctaggatgtggcattctccagccatccaaggagactgagtcaagttgttccnttaagtc 301 61 Gaps Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., home/pandya/spector386680/lest/US-08-167-628-1.rge Trevaskis, E., Waterston, R., Williamson, A., Wohldmann, P. and 2 aatagtctatcaaccccagacactggtttgaagaatgttaagacttgacagtggaactac 182 aqtqtaattgaqaaggaaaattttaqcqtqctcactgacctgcctgtaqcctcaqtgaca 1 (bases 1 to 434) Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 6 others Indels Eutheria; Primates; Catarrhini; Hominidae; Homo, 6 WashU-Merck EST Project Washington University School of Medicine ىد 0; Mismatches 119 /organism="Homo sapiens" High quality sequence stops: 301 Source: IMAGE Consortium, LLNL Location/Qualifiers ō Email: est@watson.wustl.edu The WashU-Merck EST Project 111 /clone="114937" /note="human 81 c Conservative Contact: Wilson RK Unpublished (1995) Tel: 314 286 1800 Fax: 314 286 1810 1..434 NCBI gi: 714603 Sep 22 21:44

ORIGIN DB

유 ð 염 3 용 ð g ð

## Sep 22 21:44 // home/pandya/spector386680/est/US-08-167-628-1.rgc

## Sep 22 21:44 // /home/pandya/spector386680/est/US-08-167-628-1.rge

OY 1390 ACAGTGG-AACTACATTAGT-ACACAG-CACCAG-BATGTATATTAAGGTGTG 1438

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Eucaryotae; Metazoa; Chordata; Vertebrata; Gnathostomata; Mammalia;
                                    ye60al2.rl Homo sapiens cDNA clone 122110 5' similar to qb:M92934 CONNECTIVE TISSUE GROWTH FACTOR PRECURSOR (HUMAN);.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            209; Match 95.6%; QryMatch 10.1%; Pred. No. 2.67e-317;
                                                                                                                       human clone=122110 library=Soares fetal liver spleen lNFLS
vector=p7773D (Pharmacia) with a modified polylinker host=DH10B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                               (ampicillin resistant) primer=M13RP1 Rsitel=Pac I Rsite2=Eco RI
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                     31-MAR-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12 gacaacgcctcctgcaggctagagaagcaganc-gcctgtgcatggtcaggccttgcga-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  High qality sequence stops: 232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Source: IMAGE Consortium, LLNL
                     mRNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The WashU-Merck EST Project Unpublished (1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Email: est@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: Wilson RK
WashU-Merck EST Project
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                 420 bp
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                                                                                                                                                                                                                                                                                                                                                                                            1 (bases 1 to 420)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tel: 314 286 1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI gi: 748311
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JOURNAL
                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
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                                                                                                       KEYWORDS
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home;bandya/spector386680/est/US-08-167-628-1.rgc

Sep 22 21:44

Location/Qualifiers

ji:

clone is available royalty-free through LINL; contact the Consortium (info@image.llnl.gov) for further information.

qality sequence stops: 254 e: IMAGE Consortium, LINL

Db 129 aagcctatca           Qy 919 AAGCCTATCA	129 asgcctatcaagtttgagctttctggctgcaccagcatgaagacataccgagctaaattc 188 	qo	 	1 acaacgcc1
Db 189 tgtgggagta	tgtgggagtatgtaccgacggcggatgctgccccttacagaaccaccacctgccgg 248	Qy	800 8	800 ACAACGCC
Qy 979 TGTGG-AGT	TGTGG-AGTATGTACCGACGCCGATGCTGCACCCCC-ACAGAACCACCCTGCCGG 1036	a ò	0 098	bl tgaacctgo       860 CTGACCTGO
Db 249 tggagtttca	249 tggagtttcaagttgccttgacggcgaggt 279	전	121 a	agectate
Qy 1037 TGGAGTT-C	1037 TGGAGTT-CAAGT-GCCCT-CACGGGGGGT 1064	Qy	920 A	
RESULT 6	376 hp mRNA FST 05-APR-1995	qu	181 t	181 tgtgggag <sup>1</sup>
TION	ns cDNA clone 126680 5' simil WTH FACTOR PRECURSOR (HUMAN):	Qy	979 T	979 TGTGG-AG
ACCESSION R06961	TATE TROOP OVALUE TRAVON TURNED IN	В	241 9	241 gtgg 244
	human clone=126680 library=Soares fetal liver spleen INFLS vector=p77730 (Pharmacia) with a modified polylinker host=DH108	Qy	1036 G	1036 GTGG 103
(ampicil Liver ar strand of AACTGGAA	<pre>(amplc.liln resistant) prime==M.3xtl RSIC6==Yad 1 KBIC6Z=ECO K1 Liver and spleen from a 20 week-post conception male fetus. 1st strand cDNA was primed with a Pac I - oligo (dT) primer [5/ AACTGGAAGAATTAATTAAAGATCTTTTTTTTTTTTTTT</pre>	RESUL LOCUS DEFIN	RESULT 7 LOCUS DEFINITION	T49714 ya80a1(
I and cl Vector. Construc	Cubra was injected to Ed. Al adaptors (Finalmacias), disperced with Fac. I and cloned into the Pac I and Eco RI sites of the modified pT/T3 vector. Library went through one round of normalization. Library constructed by Bento Soares and M.Fatima Bonaldo.	ACC KEY SOU	ACCESSION KEYWORDS SOURCE	T49714 EST.
×	Homo sapiens Eucaryotae; Metazoa; Chordata; Vertebrata; Gnathostomata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			vector: primer: Primer
KEFERENCE 1 (Dase AUTHORS Hillier, Holman, N Parsons, Trevaski	<pre>1 (bases 1 to 3/b) Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Partsons,J., Rifkin,L., Rohlfing,T., Sarres,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and</pre>	0	ORGANISM	temale sequences'-CTCC Homo sa
Wilson, R. TITLE The WashU JOURNAL Unpublish COMMENT	Wilson,R. The WashU-Merck EST Project Unpublished (1995)	REF	REFERENCE AUTHORS	Euther 1 (bas Hillien Holman
	Contact: Wilson RK WashU-Merck EST Project Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800	T. COM	TITLE JOURNAL COMMENT	WashU-I Unpubl
Email: Or Email: Or High qal Source: This clo	Email: estWatson.wustl.edu High qality sequence stops: 235 Source: IMAGE Consortium, LINL This clone is available royalty-free through LINL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.			Washu- Washing 4444 F Tel: 3:
NCBI gi: FEATURES source	NCBI gi: 758884 Location/Qualifiers 1.376 /organism="Homo sapiens" /clone="12680"			Email: High que Source This courtients
BASE COUNT 95 ORIGIN	/note="human" a 93 c 98 g 87 t 3 others	FEA	FEATURES source	NCBI 9:
DB 16; Score Matches 235; Co	206; Match 96.3%; QryMatch 9.9%; Pred. No. 9.94e-312; Conservative 0; Mismatches 5; Indels 4; Gaps 4;			

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r: Oligo dT. Total ovary tissue, normal 49 year old caucasian e. Average insert size: 0.8 kb; Uni-ZAP XR Vector; 5' adaptor nce: 5'-GAATTCGGCACGAG-3'; 3' adaptor sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    yotae; Metazoa; Chordata; Vertebrata; Gnathostomata; Mammalia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 357 bp mRNA EST 08-FEB-1995
10.rl Homo sapiens cDNA clone 67962 5' similar to gb:M92934
CTIVE TISSUE GROWTH FACTOR PRECURSOR (HUMAN).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Liter, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M.,
Ilman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M.,
rsons, J., Rifkin, L., Rohlfing, T., Tan, F., Trevaskis, E.,
terston, R., Williamson, A., Wohldmann, P. and Wilson, R.
sub-lawerk EST project
published (1995)
published (1995)
ntact: Wilson RK
shU-Merck EST Project
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r=Bluescript SK host=SOLR cells (kanamycin resistant)
r=M13RP1 Rsite1=EcoRI Rsite2=XhoI Cloned unidirectionally.
                                                                                                                                                                                                                                                                                                                                caagtitgagcittctggctgcaccagcatgaaggacataccgagctaaatic 180
                                                                                                                                                                                                                                                 ngton University School of Medicine
Forest Park Parkway, Box 8501, St. Louis, MO 63108
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/note="human"

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vector=pBluescript SK- host=SOLR cells (Kanamycin resistant) primer=-21m13 Rsitel=EcoRI Rsite2=EXhoI Normal lung tissue from a 72 year old male. Cloned unidirectionally. Primer: Oligo dT. Average insert size: 1.0 kb; Uni-ZAP XR Vector; 5' adaptor sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eucaryotae; Metazoa; Chordata; Vertebrata; Gnathostomata; Mammalia;
                                                                             Pred. No. 1.16e-276;
Indels 1; Gaps 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                yc24e08.s1 Homo sapiens cDNA clone 81638 3' similar to gb:M92934
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                                                                                                                                                                                                                                                                     62 gttcaaagcatgaaatggatacttatatggaaattctgctcagatagaatgacagtccgt 121
                                                                                                                                                                                                                                                                                                                                                                             122 caaaacagattgtttgcaaaggggaggcatcagtgtccttggcaggctgatttctaggta 181
                                                                                                                                                               2 tatttcaatgttagcctcaatttctgaacaccataggtagaatgtaaagcttgtctgatc 61
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Parsons, J., Rifkin, L., Rohlfing, T., Tan, F., Trevaskis, E.,
Waterston, R., Williamson, A., Wohldmann, P. and Wilson, R.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CONNECTIVE TISSUE GROWTH FACTOR PRECURSOR (HUMAN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 human clone=81638 library=Stratagene lung (#937210)
  3 others
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                                                                             187; Match 99.5%; OryMatch 9.0%; onservative 0; Mismatches 0; I
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  53 c
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                                                                                                          Conservative
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Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      182 ggaaatgtggtagc 195
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                                                                                    Score
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  BASE COUNT
                                                                             DB 56; :
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/organism="Homo sapiens"

1..410

source

This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.

/organism="Homo sapiens" /clone="118873"

Location/Qualifiers

NCBI gi: 724511

source

FEATURES

172; Match 96.7%; QryMatch 8.3%; Pred. No. 3.81e-249;

0; Mismatches

Conservative

Score

DB 49;

Matches

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BASE COUNT

/clone="81638"

/note="human'

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2070 GCTACCACATTCCTACCTAGAATCAGCCTGCCAAG-ACACTGATGCCTCCCCTTTGCA 2012

196 gctaccacatttcctacctagaaatcagcctgccaaggacactgatgcctcccctttgca 255

aacaatctgttttgacggactgtcattctatctgagcagaatttccatataagtatccat 315

256

1951 TTCATGCTTTGAACGATCAGACATCTTACATTCTACCTATGGTG-TTCAG-AAATTGA 1894

376 gggctaacattggaaatatcaaaggcattaaaaac 410

316 ttcatgctttgaacgatcagacaagctttacattctacctatggnggttcaggaaattga 375

This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. 1 (bases I to 408)
Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M.,
Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M.,
Parsons, J., Rifkin, L., Rohlfing, T., Tan, F., Trevaskis, E.,
Waterston, R., Williamson, A., Wohldmann, P. and Wilson, R. 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Eutheria; Primates; Catarrhini; Hominidae; Homo. Washington University School of Medicine High qality sequence stops: 364 Source: IMAGE Consortium, LINL Location/Qualifiers Email: est@watson.wustl.edu 1..408 TITLE JOURNAL REFERENCE AUTHORS FEATURES COMMENT

Location/Oualifiers

NCBI gi: 655247

FEATURES

### /home/pandya/spector386680/lest/US-08-167-628-1.rge Sep 22 21 44

/organism="Homo sapiens" /clone="67962"

Eucaryotae; Metazoa; Chordata; Vertebrata; Gnathostomata; Mammalia; Caucasian male. Cloned unidirectionally. Primer: Oligo dT. Average insert size: 1.2 kb; Uni-ZAP XR Vector; 5' adaptor sequence: 5'-GAATTCGCCACGAG-3'; 3' adaptor sequence: T53387 365 bp mRNA EST 08-FEB-1995 ya88f03.rl Homo sapiens cDNA clone 68765 5' similar to gb:M92934 CONNECTIVE TISSUE GROWTH FACTOR PRECURSOR (HUMAN). 169; Match 94.0%; QryMatch 8.1%; Pred. No. 1.16e-243; Source: IMAGE Consortium, LLNL This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. primer=M13RP1 Rsite1=EcoRI Rsite2=XhoI Placental tissue from a 204 gctaccacatttcctacctagnaatcagcctgccaaggacactgatgcctcccctttgca 263 1 (bases 1 to 365)
Hillier,L., Clark,N., Dubuque, T., Elliston,K., Hawkins,M.,
Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,
Parsons,J., Rikkin,L., Rohlfing,T., Tan,F., Trevaskis,E.,
Waterston,R., Williamson,A., Wohldmann,P. and Wilson,R. vector=pBluescript SK- host=SOLR cells (kanamycin resistant) 264 aacaatctgttttgacggactgtcattctatctgngcagantttccatatangnatccat 324 ttcatgctttgaacgntcagncaagctttacattctacctatggggttcagnaaattgag 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 human clone=68765 library=Stratagene placenta (#937225) 10 others Indels Eutheria; Primates; Catarrhini; Hominidae; Homo. 9; Washington University School of Medicine ı 0; Mismatches 118 5'-crccagttrtrtrtrtrtrtr-3'. High qality sequence stops: 311 б Email: est@watson.wustl.edu 65 1892 GCTAACATTG-AAATATCAAA 1873 384 gctaacattggaaatatccaa 404 WashU-Merck EST Project Other\_ESTs: ya88f03.s1 /note="human" 82 c Conservative Contact: Wilson RK Unpublished (1995) Tel: 314 286 1800 Fax: 314 286 1810 Homo sapiens æ 133 T53387 EST. Score 11 DEFINITION BASE COUNT ORGANISM Matches ACCESSION REFERENCE AUTHORS JOURNAL DB 45; KEYWORDS TITLE COMMENT RESULT ORIGIN SOURCE g g 엄 ď 염 g, 쇰 ď

similar to gb:M92934

08-FEB-1995

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Sep 22.21.44 /home/pandya/sp	

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vector-pBluescript SK- host-SOLR cells (kanamycin resistant) primer-m13RP1 Rsitel-EcoRI Rsite2-XhoI Placental tissue from a Caucasian male. Cloned unidirectionally. Primer: Oligo dT. Average insert size: 1.2 kb; Uni-ZAP XR Vector; 5' adaptor sequence: 5'-GAATTCGGCAGCAG-3'; 3' adaptor sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eucaryotae; Metazoa; Chordata; Vertebrata; Gnathostomata; Mammalia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T53524 205 bp mRNA EST 08-FEB-1995 ya96b01.rl Homo sapiens cDNA clone 69481 5' similar to gb:M92934 CONNECTIVE TISSUE GROWTH FACTOR PRECURSOR (HUMAN).
                                                                                                                                                                         Pred. No. 5.21e-240;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. Trace considered overall poor quality.
                                                                                                                                                                                                                                                                          1958 ACTIATATGGAAATTCTGCTCAGATAGAATGACAGTCCGTCAAAACAGATTGTTTGCAAA 2017
                                                                                                                                                                                                                                                                                                                                               acttatatggaaattctgctcagatagaatgacagtccgtcaaaacagattgtttgcaaa 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 205)

Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, M., Hulman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfing, T., Tan, F., Trevaskis, E., Waterston, R., Williamson, A., Wohldmann, P. and Wilson, R. WashU-Merck EST Project
                                                                                                                                                                                                                                                   tttctgaacaccataggtagaatgtaaagcttgtctgatcgttcaaagcatgaaatggat 63
                                                                                                                                                                                                   1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2018 GGGGGGCGATCAGTGTC-TTGCCAGGTGATTCTAGGTAGGAAATGTGGTAGC 2070
                                                                                                                                                                                                                                                                                                                                                                          4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human clone=69481 library=Stratagene placenta (#937225)
                                                                                                                                                                                                0, Indels
                                                                                                                                                                         OryMatch 8.0%;
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                                                                                                                                                                                                0; Mismatches
                    /organism="Homo sapiens"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: est@watson.wustl.edu
                                                                                                                                                                         Match 99.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Wilson RK
WashU-Merck EST Project
                                                /clone="68765"
                                                                         /note="human
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                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fax: 314 286 1810
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SOURCE
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Adams, M.D., Kerlavage, A.R., Fleischmann, R.D., Fuldher, R.A., Bult, C.J., Lee, N., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White, O., Sutton, G., Blake, J.A., Brandon, R.C., Chiu, M.-W., Claugh, -W., Claugh, -W., Claugh, -W., Claugh, -W., Claugh, -W., Carton, M.D., Earle-Hudhes, J., Fine, L.D., Fitzcherald, L.M., Fitzhugh, M.M., Fritchman, J.L., Geoghagen, N.S.M., Glodek, A., Gnehm, C.L., Hanna, M.C., Hedblom, E., Hinkle Jr, P.S., Kelley, J.M., Klimek, K.M., Kelley, J.C., Liu, L.-I., Marmaros, S.M., Merrick, J.M., Woreno-Palanques, R.F., McDorald, L.A., Nguyen, D.T., Pellegrino, S.M., Phillips, C.A., Ryder, S.E., Scott, J.L., Saudek, D.M., Shirley, R., Small, K.V., Spriggs, T.A., Utterback, T.R., Weidman, J.F., Li, Y., Bednarik, D.P., Cao, L., Cepeda, M.A., Collins, E.-J., Dinke, D., Feng, P., Ferrie, A., Fischer, C., Hastings, G.A., He, W.-W., Hu, J.-S., Greene, J.M., Gruber, J., Hudson, P., Kim, A., Kozak, D.L., Kunsch, C., Ji, H., Li, H., Meissner, P.S., Olsen, H., Raymond, L., Wei, Y.-F., Wing, J., Xu, C., Yu, G.-L., Ruben, S.M., Dillon, P.J., Fannon, M.S., Rosen, C.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eucaryotae; Metazoa; Chordata; Vertebrata; Gnathostomata; Mammalia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Initial Assessment of Human Gene Diversity and Expression Patterns
                                                                                                                                                                                             ö
                                                                                                                                                                  Pred. No. 8.41e-222;
                                                                                                                                                                                                                                                                            T27642 404 bp mRNA EST 04-JAN-1995 EST10485 Homo sapiens cDNA 3' end similar to connective tissue
                                                                                                                                                                                                                                                                                                                                                             63 intageceengigaengeinggannigeatieinenneenienngagaetgagienagii 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     123 gttccttnagncngaacngcngactcngcnctgacnttctgnttcgnntgacacngttca 182
                                                                                                                                                                                                                                                62
                                                                                                                                                                                             0; Gaps
                                                                                                                                                                                                                                                     tatgnctnctntttgnngtgtnattaaganggannatttnngcntnctcactgacctgcc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Haseltine, W.A., Fields, C., Fraser, C.M. and Venter, J.C.
                                                                                                                                                                                             0; Mismatches 43; Indels
                                                                                 40 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human library=Human Adipose tissue primer=M13-21.
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                                                                                                                                                                  OryMatch 7.6%;
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/organism="Homo sapiens"
/clone="69481"
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                                                                                                                                                                  157; Match 78.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1684 GGAATCGGAATCCTGTCGATTAG 1706
                                                                                 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    183 gggnncgggatcctgtcgattag 205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      growth factor (HT:1399).
                                                       /note="human"
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                                                                                 43 c
                                                                                                                                                                                             Conservative
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Sep 22 21:44

NCBI gi: 673548 FEATURES

Location/Qualifiers source

1..140

/organism="Homo sapiens" /clone="81638"

39 c 39 a

BASE COUNT

ORIGIN

/note="human'

ų 22 36 g

1 others

Pred. No. 2.86e-189; ; 0 1; Indels 139; Match 99.3%; OryMatch 6.7%; 0; Mismatches Conservative Score DB 49; So

9 1 tgaagacataccgagctaaattctgtggagtatgtaccgacggncgatgctgcaccccc 염

956 TGAAGACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCC 1015 à δ

61 acagaaccaccacctgccggtggagttcaagtgccctgacggcgaggtcatgaagaaga 120

g

121 acatgatgttcatcaagacc 140 g

ð

15 RESULT

HHEA46W 326 bp RNA EST 18-AUG-199 H. sapiens partial CDNA sequence; clone HEA46W; single read. DEFINITION

partial cDNA sequence; transcribed sequence fragment. 236725 ACCESSION KEYWORDS

Homo sapiens human. ORGANISM SOURCE

Metazoa, Eumetazoa, Bilateria, Coelomata, Deuterostomia, Chordata, Vertebrata, Gnathostomata, Osteichthyes; Sarcopterygii, Choanata, Eukaryotae; mitochondrial eukaryotes; Metazoa/Eumycota group;

Petrapoda; Amniota; Mammalia; Theria; Eutheria; Archonta; Primates; Catarrhin; Hominidae; Homo. 1 (bases 1 to 326)

REFERENCE

Direct Submission Genexpress. AUTHORS TITLE JOURNAL

Submitted (12-AUG-1994) to the EMBL/GenBank/DDBJ databases. Genzentrum Muenchen, Laboratorium fuer molekulare Biologie, Am Klopferspitz 18a, 82152 Martinsried, Germany. E-mail:

obermaier@vms.biochem.mpg.de

The Genexpress cDNA program (bases 1 to 326) Genexpress. REFERENCE AUTHORS TITLE

cloning vector is pBluescript SK(+); Genexpress library reference is A. Unpublished JOURNAL COMMENT

automatic.

Location/Qualifiers 1..326 NCBI gi: 531575 source FEATURES

Human heart" /clone lib="Atrium cDNA library 6 /organism="Homo sapiens" 0 89 0 ø 113 BASE COUNT

ORIGIN

124; Match 99.2%; QryMatch 6.0%; Pred. No. 1.88e-162; Score DB 3;

information related to this EST, please contact the TIGR Database For clone availability, additional sequence and expression

(tdbinfo@tdb.tigr.org)

Location/Qualifiers NCBI gi: 609740 source

FEATURES

1..404

/organism≂"Homo sapiens"

2 others 113 t b 19 /note="human' 82 c æ

BASE COUNT

ORIGIN

155; Match 95.3%; QryMatch 7.5%; Pred. No. 3.59e-218; onservative 0; Mismatches 2; Indels 8; Gaps 8 Score DB 39; So Matches

191 getaccacatttcctacctagaaatcagcctgccaaggacactgatgcctcccctttgca 250 Conservative 204; g

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1953 ATTICATECTITGAACGATCAGACATITACATICTACATACTATGGTG-TCAGAAATTG 1895 გ

염

T64503 140 bp mRNA EST 20-FEB-1995 yc24e08.rl Homo sapiens cDNA clone 81638 5' similar to gb:M92934 140 bp T64503 14. RESULT LOCUS

CONNECTIVE TISSUE GROWTH FACTOR PRECURSOR (HUMAN); T64503 DEFINITION ACCESSION

EST. KEYWORDS SOURCE

human clone=81638 library=Stratagene lung (#937210)
vector=pBluescript SK- host=SOLR cells (kanamycin resistant)
prime=M13RP1 Rsitel=EcoR1 Rsite2=XhoI Normal lung tissue from a 72
year old male. Cloned unidirectionally. Primer: Oligo dT. Average
insert size: 1.0 kb; Uni-ZAP XR Vector; 5' adaptor sequence:
5'-CAATTGCGCACGCA-3'; 3' adaptor sequence:
5'-CAATTTTTTTTTTTTTTTTTTTTT"3'.

Homo sapiens ORGANISM

Eucaryotae; Metazoa; Chordata; Vertebrata; Gnathostomata; Mammalia;

Eutheria; Primates; Catarrhini; Hominidae; (bases 1 to 140) REFERENCE AUTHORS

Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M.,
Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,
Parsons,J., Rifkin,L., Rohlfing,T., Tan,F., Trevaskis,E.,
Waterston,R., Williamson,A., Wohldmann,P. and Wilson,R.

WashU-Merck EST Project Unpublished (1995)

TITLE JOURNAL COMMENT

Contact: Wilson RK

Washington University School of Medicine WashU-Merck EST Project

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810

Email: est@watson.wustl.edu

Source: IMAGE Consortium, LLNL

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Sep 22.21.44 ///////////////////////////////////	ss 130; Conserv	
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ekmædizimini ++ 1777 dac .	ss 130; Conserv	

Search completed: Fri Sep 22 21:57:17 1995 Job time : 425 secs.